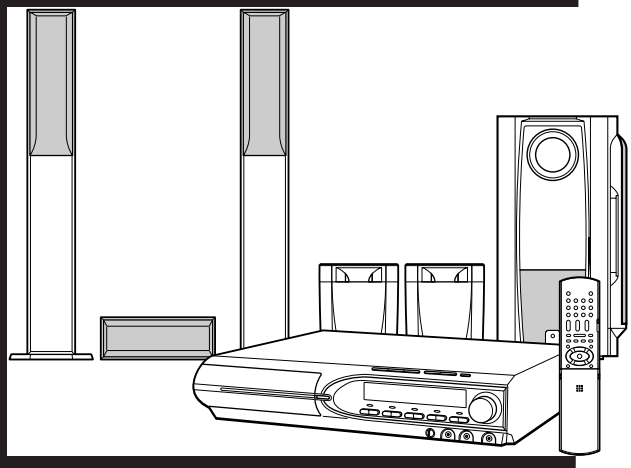
JVC

English

DVD DIGITAL CINEMA SYSTEM

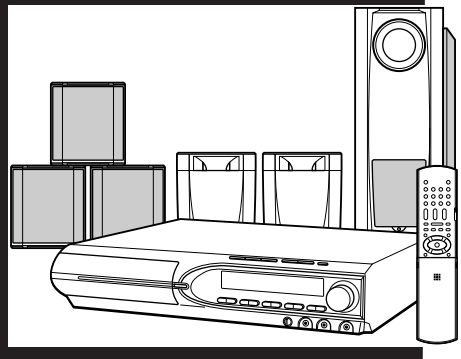
TH-M508

Consists of XV-THM508, SP-PWM508, SP-THM508F, SP-THM508C and SP-THM505S



TH-M303

Consists of XV-THM303, SP-PWM303, SP-THM303F, SP-THM303C and SP-THM303S



AU T /

INSTRUCTIONS

LVT1147-010A
[A,US,UN,UW,UG,UX]

CAUTION

To reduce the risk of electrical shocks, fire, etc.:

1. Do not remove screws, covers or cabinet.
2. Do not expose this appliance to rain or moisture.

CAUTION — ⏻/I button! (XV-THM508/ XV-THM303)

Disconnect the mains plug to shut the power off completely (the STANDBY lamp goes off).

The ⏻/I button in any position does not disconnect the mains line.

- When the system is on standby, the STANDBY lamp lights red.
- When the system is turned on, the STANDBY lamp goes off.

The power can be remote controlled.

CAUTION (SP-PWM508/ SP-PWM303)

The power supply to the subwoofer is linked to the center unit. The POWER ON lamp on the subwoofer lights green when the power is turned on.

CAUTION

- Do not block the ventilation openings or holes.
  (If the ventilation openings or holes are blocked by a newspaper or cloth, etc., the heat may not be able to get out.)
- Do not place any naked flame sources, such as lighted candles, on the apparatus.
- When discarding batteries, environmental problems must be considered and local rules or laws governing the disposal of these batteries must be followed strictly.
- Do not expose this apparatus to rain, moisture, dripping or splashing and that no objects filled with liquids, such as vases, shall be placed on the apparatus.

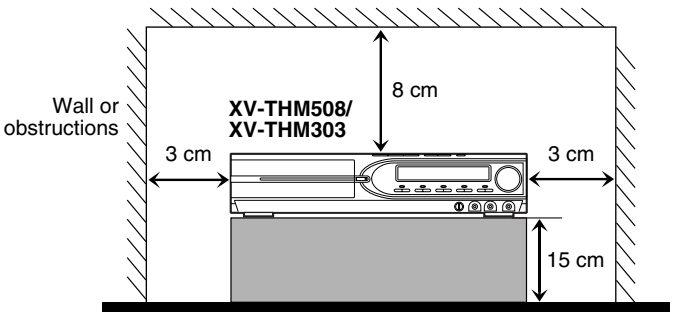
IMPORTANT FOR LASER PRODUCTS

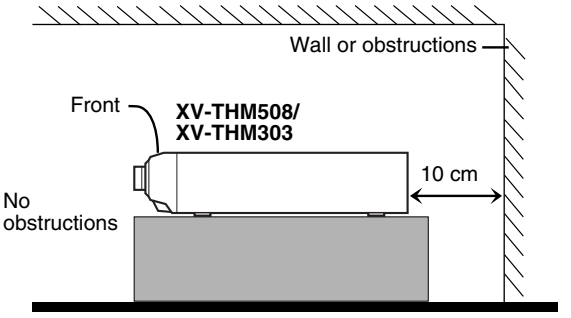
1. CLASS 1 LASER PRODUCT
2. **CAUTION**: Do not open the top cover. There are no user serviceable parts inside the unit; leave all servicing to qualified service personnel.
3. **CAUTION**: Visible and invisible laser radiation when open and interlock failed or defeated. Avoid direct exposure to beam.
4. REPRODUCTION OF LABEL: CAUTION LABEL, PLACED INSIDE THE UNIT.

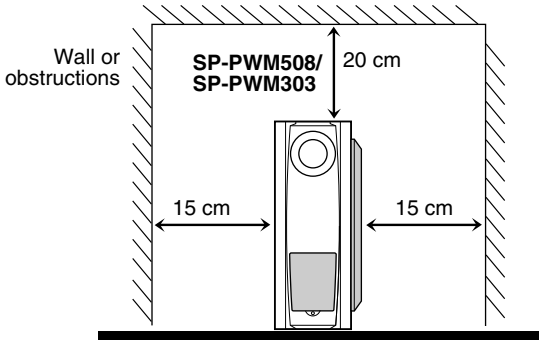
CAUTION : Visible and invisible laser radiation when open and interlock failed or defeated. AVOID DIRECT EXPOSURE TO BEAM. (e)	**ADVARSEL :** Synlig og usynlig laserstråling når maskinen er åben eller interlocken fejler. Undgå direkte eksponering til stråling. (d)	**VARNING :** Synlig och osynlig laserstrålning när den öppnas och spärren är urkopplad. Betrakta ej strålen. (s)	**VARO :** Avattaessa ja suojalukitus ohitettuna tai viallisena olet alttiina näkyvälle ja näkymättömälle lasersäteilylle. Vältä säteen kohdistumista suoraan itseesi. (f)

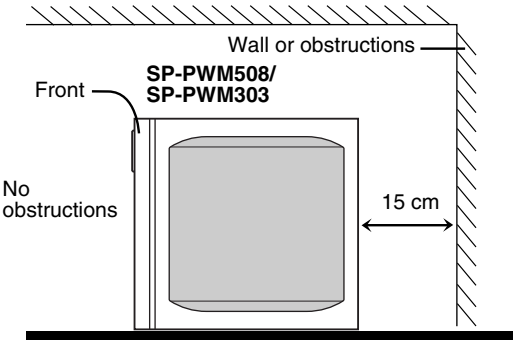
Caution: Proper Ventilation

To avoid risk of electric shock and fire and to protect from damage, place the apparatus on a level surface. The minimal clearances are shown below:









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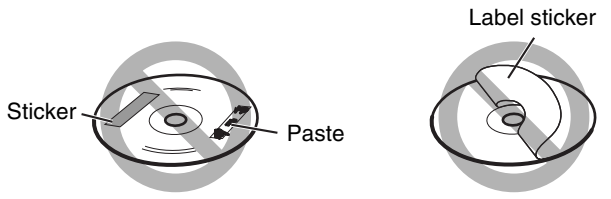
Notes on handling

■ Important cautions

Installation of the system
- Select a place which is level, dry and neither too hot nor too cold; between 5°C and 35°C.
- Leave sufficient distance between the system and the TV.
- Do not use the system in a place subject to vibration.

Power cord
- Do not handle the power cord with wet hands!
- A small amount of power is always consumed while the power cord is connected to the wall outlet (center unit only).
- When unplugging the power cord from the wall outlet, always pull on the plug, not the power cord.

To prevent malfunctions of the system
- There are no user-serviceable parts inside. If anything goes wrong, unplug the power cord and consult your dealer.
- Do not insert any metallic object into the system.
- Do not use any non-standard shape disc (like a heart, flower or credit card, etc.) available on the market, because it may damage the system.
- Do not use a disc with tape, stickers, or paste on it, because it may damage the system.



Note about copyright laws
Check the copyright laws in your country before recording from the discs. Recording of copyrighted material may infringe copyright laws.

Note about copyguard system
The discs are protected by copyguard system. When you connect the system to your VCR directly, the copyguard system activates and the picture may not be played back correctly.

■ Safety precautions

Avoid moisture, water and dust
Do not place the system in moist or dusty places.

Avoid high temperatures
Do not expose the system to direct sunlight and do not place it near a heating device.

When you are away
When away on travel or for other reasons for an extended period of time, disconnect the power cord plug from the wall outlet.

Do not block the vents
Blocking the vents may damage the system.

Care of the cabinet
When cleaning the system, use a soft cloth and follow the relevant instructions on the use of chemically-coated cloths. Do not use benzene, thinner or other organic solvents including disinfectants. These may cause deformation or discoloring.

If water gets inside the system
Turn the system off and disconnect the power cord plug from the wall outlet, then call the store where you made your purchase. Using the system in this condition may cause fire or electrical shock.

Supplied accessories

Check to be sure you have all of the supplied accessories.
The number in parentheses is the quantity of the pieces supplied.
If anything is missing, contact your dealer immediately.

- Remote control (1)
- Batteries (2)
- FM antenna (1)
- AM loop antenna (1)
- Power cord (1)
- System cord (1)
- Composite video cord (1)
- Speaker cords (TH-M508 only)
  For satellite (front left/right) and center speakers (3)
  For satellite speakers (surround left/right) (2)
- Screws (TH-M508 only)
  M4 x 20 mm:
  For front speakers (8)
- AC plug adaptor (2) (except for Australia)

Playable disc types

This system has been designed to play back the following discs: DVD VIDEO, DVD AUDIO, Video CD (VCD), Super Video CD (SVCD), Audio CD (CD), CD-R and CD-RW.

- This system accommodates the NTSC and PAL system. When you play an NTSC disc with the scan mode set to "PAL" (☞ pg. 18), the NTSC video signal is converted to the PAL60 signal and output.
- This system can also play MP3, WMA, JPEG and MPEG4 files recorded on CD-Rs and CD-RWs. (☞ pg. 20)
- This system can also play finalized DVD-R/-RWs recorded in DVD VIDEO format. However, some discs may not be played because of their disc characteristics or recording conditions.

Discs you can play:

DVD VIDEO	CD
DVD AUDIO	CD-R
VCD	CD-RW
SVCD	

DVD Logo is a trademark of DVD Format/Logo Licensing Corporation.

Region code of DVD VIDEO

DVD VIDEO players and DVD VIDEO discs have their own Region Code numbers. This system can play back DVD VIDEO discs whose Region Code numbers include the system's Region Code, which is indicated on the rear panel.

Example of playable DVD:

For Australia, Central and South America

For Middle East

Except for Australia, Central and South America, and Middle East

If a DVD with an improper Region Code number is loaded, "REGION CODE ERROR!" appears on the TV screen and playback cannot start.

- The following discs cannot be played back:
  DVD-ROM, DVD-RAM, SACD, CD-ROM, CD-I (CD-I Ready), Photo CD, etc.
  Playing back these discs will generate noise and damage the speakers.
- **On some DVD VIDEOs, DVD AUDIOs, VCDs or SVCDs, their actual operation may be different from what is explained in this manual. This is due to the disc programming and disc structure, not a malfunction of this system.**

Notes on CD-R and CD-RW

- User-edited CD-Rs (Recordable) and CD-RWs (Rewritable) can be played back only if they are already "finalized".
- This system can play CD-Rs or CD-RWs recorded on a personal computer if they have been recorded in the audio CD format. This system can also play CD-Rs or CD-RWs if MP3, WMA, JPEG or MPEG4 files are recorded on them.
  However, some discs may not be played back because of their disc characteristics, recording conditions, or damage or stain on them.
  Especially, the configuration and characteristics of an MP3, WMA, JPEG or MPEG4 disc are determined by the writing (encoding) software and hardware used for recording. Therefore, due to the software and hardware used, the following symptoms may occur:
  - Some discs may not be played back.
  - Some tracks on an MP3 or WMA disc may be skipped or may not be played back normally.
  - Some files on a JPEG or MPEG4 disc may be played back distortedly.
- Before playing back CD-Rs or CD-RWs, read their instructions or cautions carefully.
- CD-RWs may require a longer readout time. This is caused by the fact that the reflectance of CD-RWs is lower than that of regular CDs.

Notes on MP3/WMA/JPEG/MPEG4 discs

- MP3/WMA/JPEG/MPEG4 discs (either CD-R or CD-RW) require a longer readout time. (It differs due to the complexity of the directory/file configuration.)
- When making an MP3/WMA/JPEG/MPEG4 disc, select ISO 9660 Level 1 or Level 2 for the disc format.
- This system supports "multi-session" discs (up to 20 sessions).
- This system cannot play "packet write" discs.
- The system can only play MP3/WMA/JPEG/MPEG4 files with the following file extensions;
  MP3: ".MP3", ".Mp3", ".mP3" and ".mp3"
  WMA: ".wma", ".WMA" and any uppercase and lowercase combination (such as ".Wma")
  JPEG: ".jpg", ".jpeg", ".JPG", ".JPEG" and any uppercase and lowercase combination (such as ".Jpg")
  MPEG4: ".asf", ".ASF" and any uppercase and lowercase combination (such as ".Asf")
- If different type of files (audio (MP3/WMA), still picture (JPEG), and video (MPEG4) files) are recorded on a disc, set the FILE TYPE setting in the PICTURE menu to the appropriate setting for the data to be read. (A pg. 37)
- The system recognizes up to 150 tracks (files) per group, 99 groups per disc, and the total number of the tracks (files) that the system can play is 1000. For example, if you set FILE TYPE to AUDIO (A pg. 37) and play a disc that contains 500 MP3 tracks, 200 JPEG files, and 600 WMA tracks, the system can play 500 MP3 tracks and the first 500 of 600 WMA tracks.
- Some MP3/WMA/JPEG/MPEG4 discs may not be played back normally because of their disc characteristics or recording conditions.

Notes on MP3/WMA discs only

- The system supports MP3 files recorded with a bit rate of 32 – 320 kbps and a sampling frequency of 16 kHz, 22.05 kHz, 24 kHz*, 32 kHz, 44.1 kHz, or 48 kHz.
- If the tag information (album name, artist, and track title, etc.) is recorded on a disc, it appears in the file control display on the TV screen. (A pg. 28)
- We recommend to record each piece of material (song) at a sample rate of 44.1 kHz and at a data transfer rate of 128 (96*) kbps.
- Some tracks may be skipped or may not be played back normally.
  * For WMA only

Notes on JPEG discs only

- We recommend to record a file at 640 x 480 resolution. (If a file has been recorded at a resolution of more than 640 x 480, it will take a longer time to be displayed.)
- This system can only play baseline JPEG files.
- Some files on a JPEG disc may be played back distortedly.

Notes on MPEG4 disc only

- The system supports the types of simple profile as MPEG4 files (MPEG4 SP).
- The system supports MPEG4 files recorded with the maximum bit rate of 384 kbps and an audio codec of G.726. (To play the MPEG4 file, it is required that G.726 formatted audio data is contained in that file.)
- The maximum size of the played picture is at a 352 x 288 pixel resolution (CIF).
- Some files may be skipped or may not be played normally.

This product incorporates copyright protection technology that is protected by method claims of certain U.S. patents and other intellectual property rights owned by Macrovision Corporation and other rights owners. Use of this copyright protection technology must be authorized by Macrovision Corporation, and is intended for home and other limited viewing uses only unless otherwise authorized by Macrovision Corporation. Reverse engineering or disassembly is prohibited.

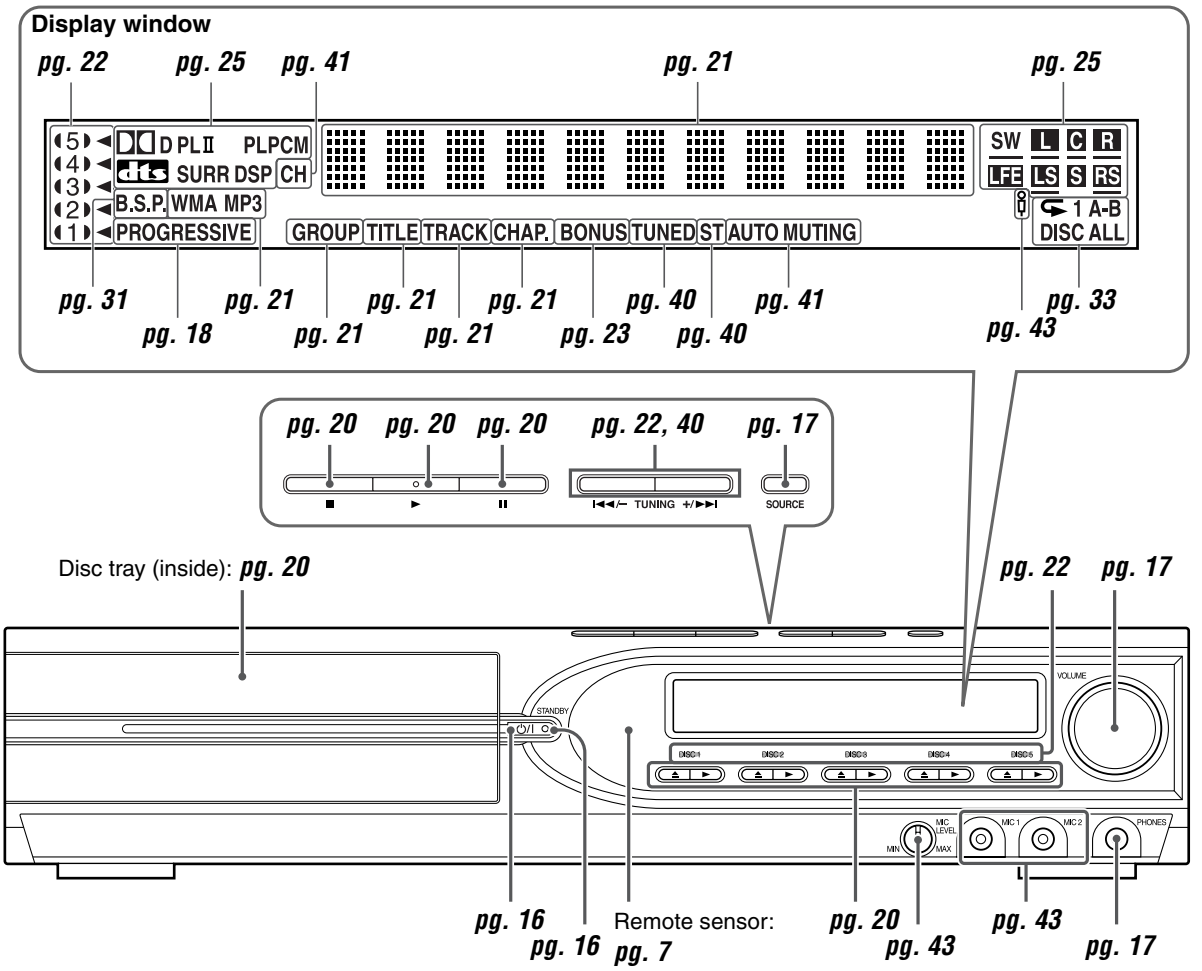
"CONSUMERS SHOULD NOTE THAT NOT ALL HIGH DEFINITION TELEVISION SETS ARE FULLY COMPATIBLE WITH THIS PRODUCT AND MAY CAUSE ARTIFACTS TO BE DISPLAYED IN THE PICTURE. IN CASE OF 525 OR 625 PROGRESSIVE SCAN PICTURE PROBLEMS, IT IS RECOMMENDED THAT THE USER SWITCH THE CONNECTION TO THE 'STANDARD DEFINITION' OUTPUT. IF THERE ARE QUESTIONS REGARDING OUR TV SET COMPATIBILITY WITH THIS MODEL 525p AND 625p DVD PLAYER, PLEASE CONTACT OUR CUSTOMER SERVICE CENTER."

USE OF THIS PRODUCT IN ANY MANNER THAT COMPLIES WITH THE MPEG-4 VISUAL STANDARD IS PROHIBITED, EXCEPT FOR USE BY A CONSUMER ENGAGING IN PERSONAL AND NON-COMMERCIAL ACTIVITIES.

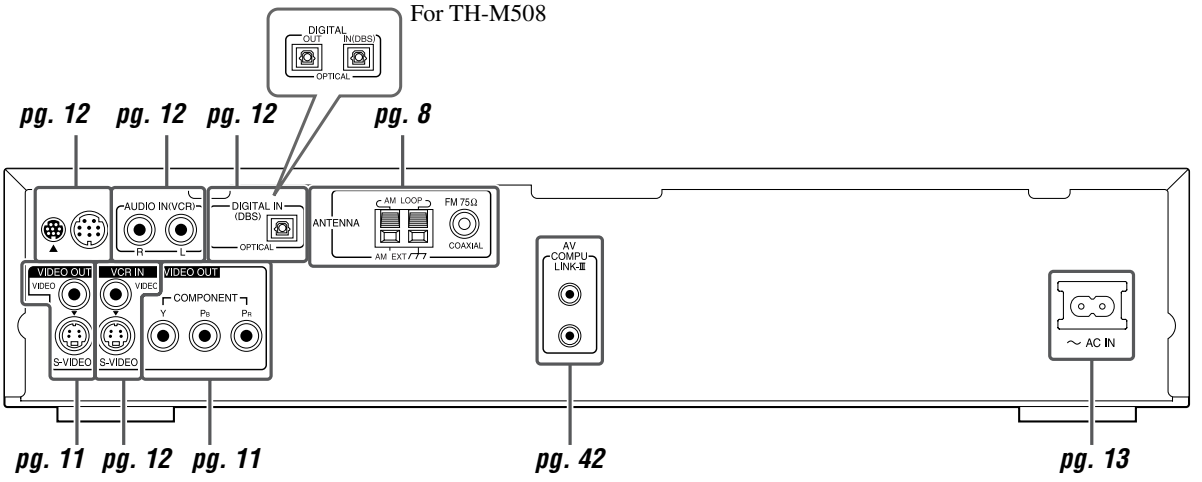
Description of parts and controls

The illustrations of the center unit and the subwoofer used in this manual are of TH-M508 unless otherwise noted.

Front panel (center unit)

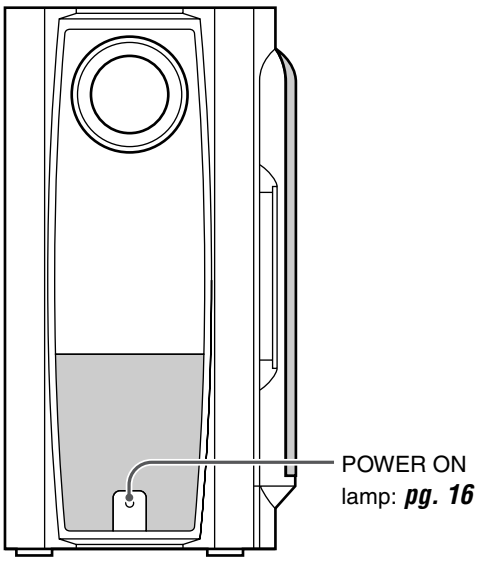


Rear panel (center unit)

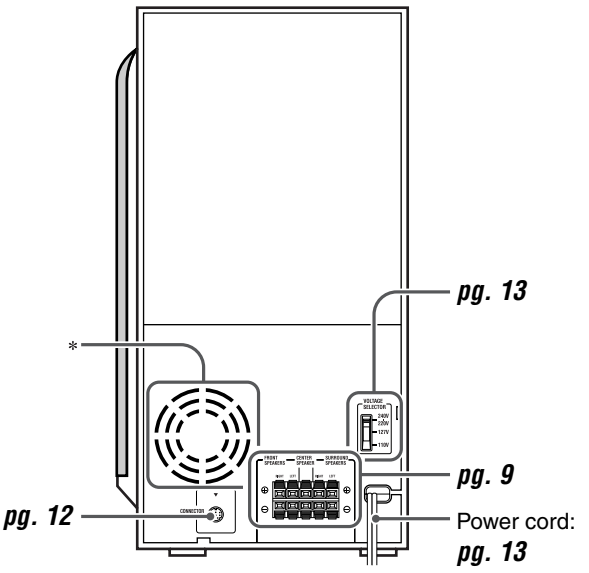


Powered subwoofer

SP-PWM508

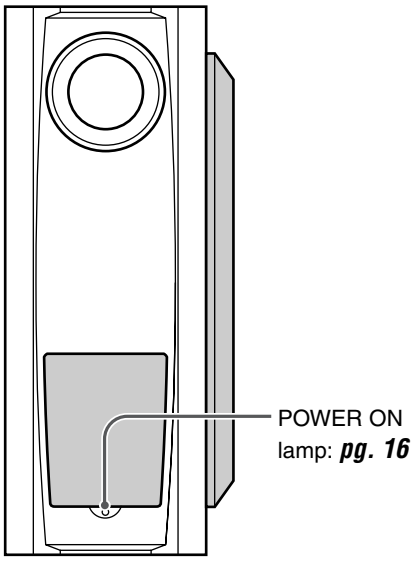


Front

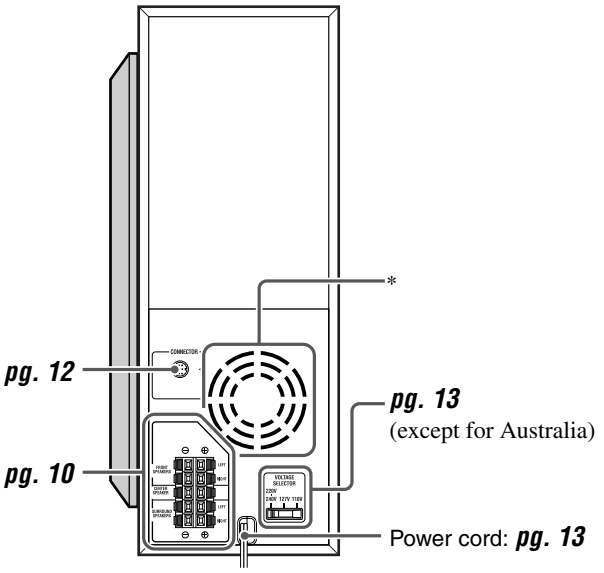


Rear

SP-PWM303



Front



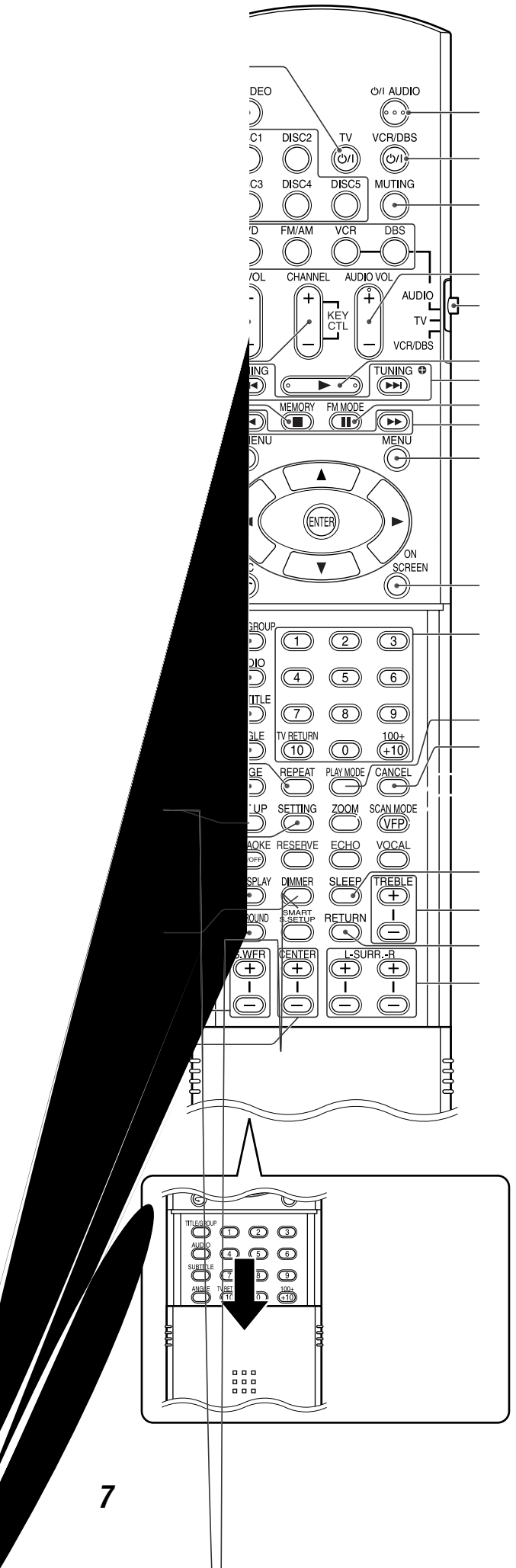
Rear

* Do not block the ventilation openings.

NOTE

- For safety reasons, always ensure that there is sufficient space behind the powered subwoofer.

ol



Putting batteries in the remote control

If the range or effectiveness of the remote control decreases, replace both batteries.

CAUTION

- Do not expose batteries to heat or flame.

Operating the system from the remote control

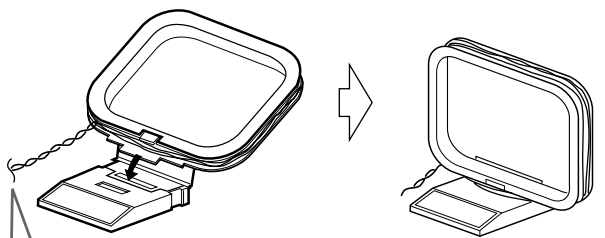
Aim the remote control directly to the front panel of the center unit.

- Do not hide the remote sensor.

Connecting the FM and AM antennas

■ AM loop antenna

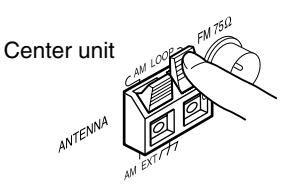
Setting up supplied AM loop antenna



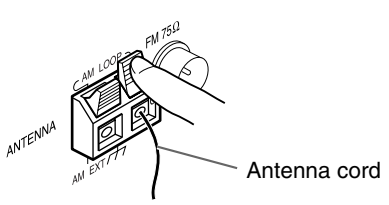
If the antenna cord is covered with the insulation coat, twist and pull the insulation coat off and remove.

Connecting AM loop antenna

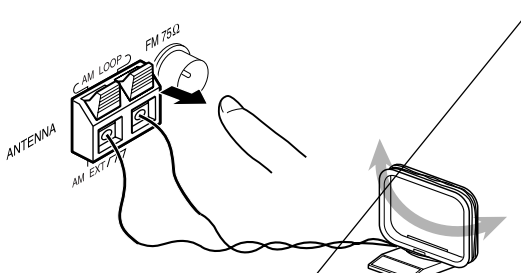
1



2



3

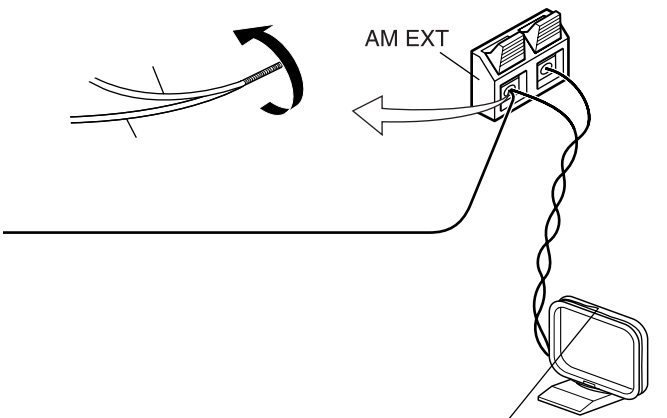


- Turn the loop antenna until you have the best reception during AM broadcast program reception.

NOTE

- Make sure the antenna conductors do not touch any other terminals, connecting cords and power cords. This could cause poor reception.

If reception is poor



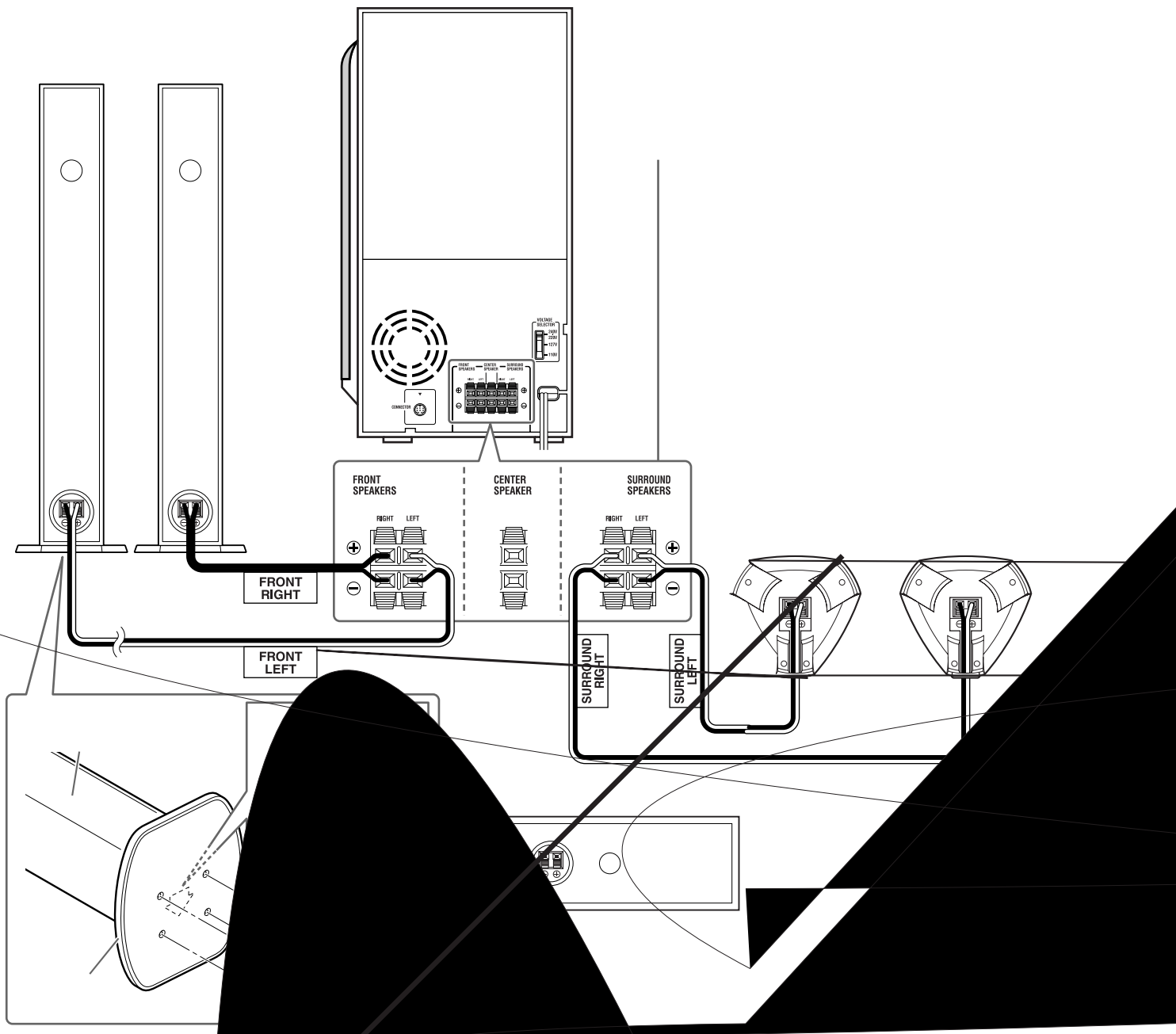
■ FM antenna

If reception is poor

NOTE

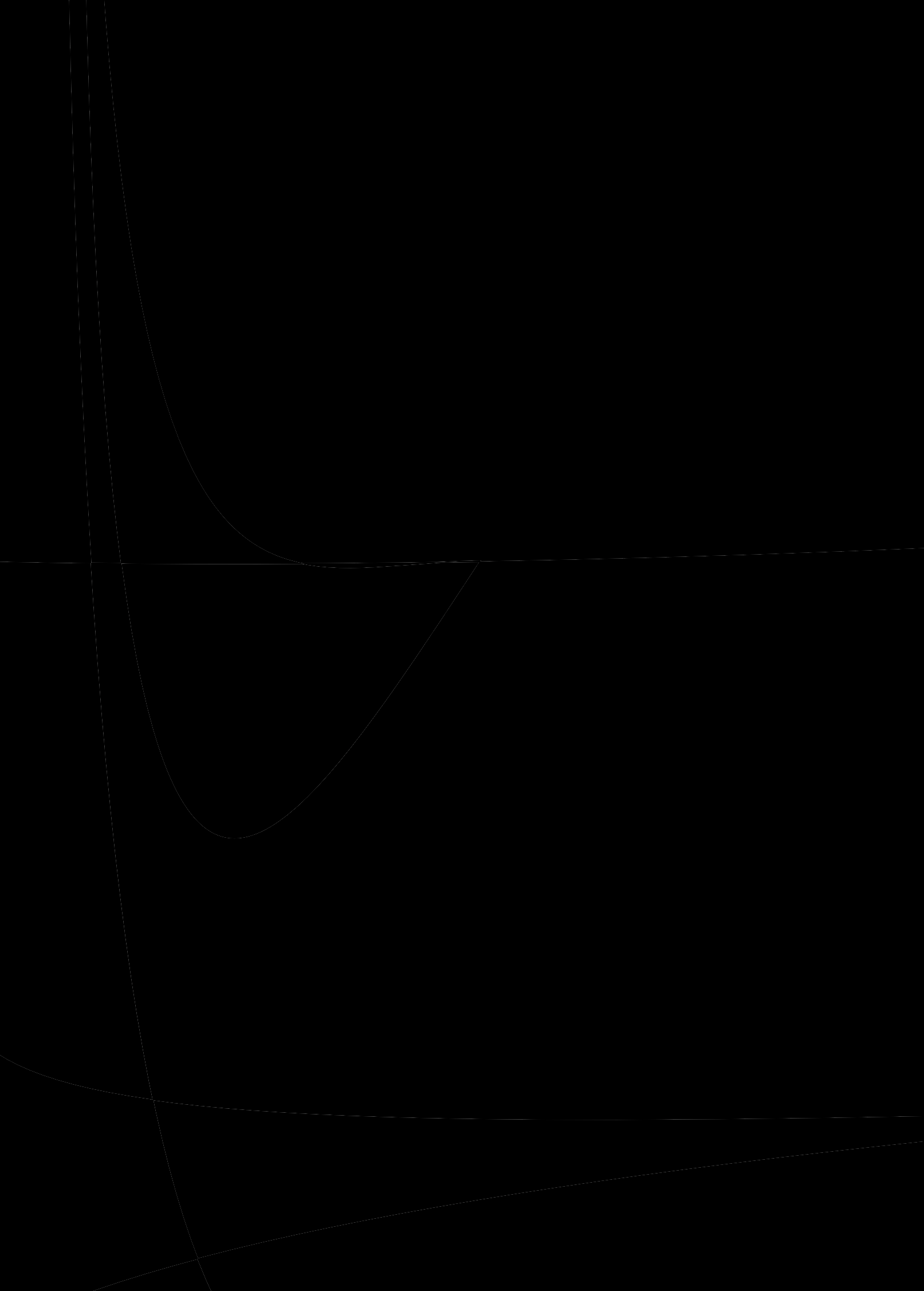
- We recommend that you use coaxial cable for the FM antenna as it is well-shielded against interference.

Connecting the satellite (front, center, surround) speakers

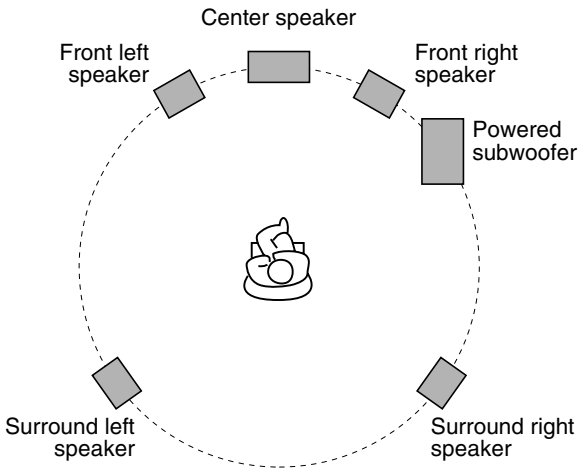


CAUTION

- When you connect speaker
  speakers of the same speak
  indicated near the speake
  subwoofer.
- DO NOT connect more th



Speaker layout



NOTE

- Although the satellite speakers and the powered subwoofer are magnetically shielded, the TV screen may appear mottled. In this case, keep enough distance between the speakers and the TV.
- The speakers are magnetically shielded to avoid color distortions on TVs. However, if not installed properly, they may cause color distortions. So, pay attention to the following when installing the speakers.
  – When placing the speakers near a TV set, turn off the TV's main power switch or unplug it before installing the speakers. Then wait at least 30 minutes before turning on the TV's main power switch again.

  Some TVs may still be affected even though you have followed the above. If this happens, move the speakers away from the TV.
- Place the satellite speakers on a flat and level surface.
- Be sure to place the powered subwoofer to the TV's right. If you place the powered subwoofer to the TV's left, keep sufficient distance between them to prevent the TV screen from appearing mottled.

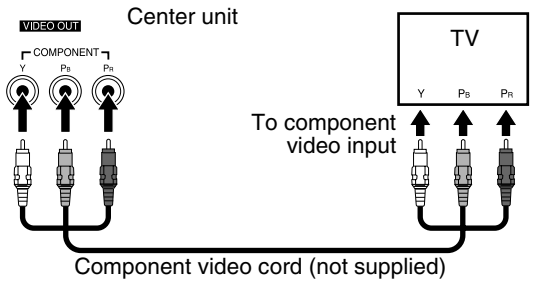
For TH-M508 only:

- Do not lean against the satellite speakers, as the speakers could fall down or break, possibly causing injury. Especially be careful not to let children lean against them.

Connecting a TV

- You can get better picture quality in the order — Component video > S-video > Composite video.
- Distortion of picture may occur when connecting to the TV via a VCR, or to a TV with a built-in VCR.
- You need to set "MONITOR TYPE" in the PICTURE menu correctly according to the aspect ratio of your TV. (☞ pg. 37)

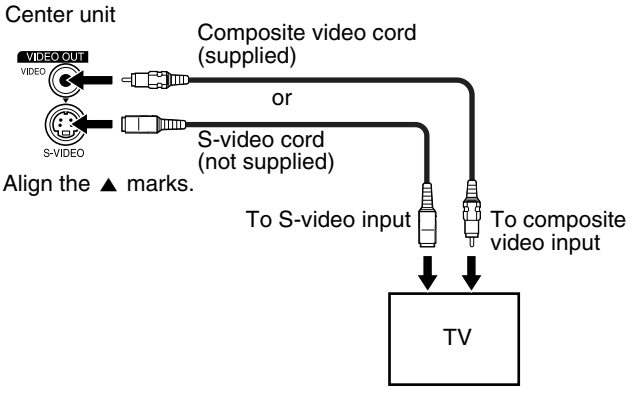
■ To connect a TV equipped with the component video input jacks



NOTE

- If your TV supports progressive video input, you can enjoy a high quality picture by setting the progressive scan mode to active. (☞ pg. 18)
- If the component video input jacks of your TV are of the BNC type, use a plug adapter (not supplied) to convert the pin plugs to BNC plugs.
- The component video signals can be output only when you select "DVD" as the source to play. (☞ pg. 17)

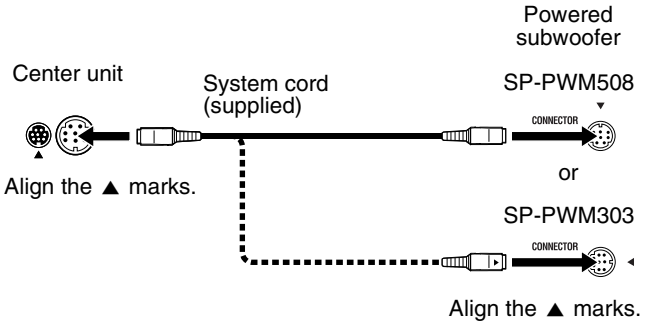
■ To connect a TV equipped with the composite video or S-video jack



NOTE

- Select the appropriate scan mode according to your TV. See "Changing the scan mode" (☞ pg. 18).

Connecting the powered subwoofer

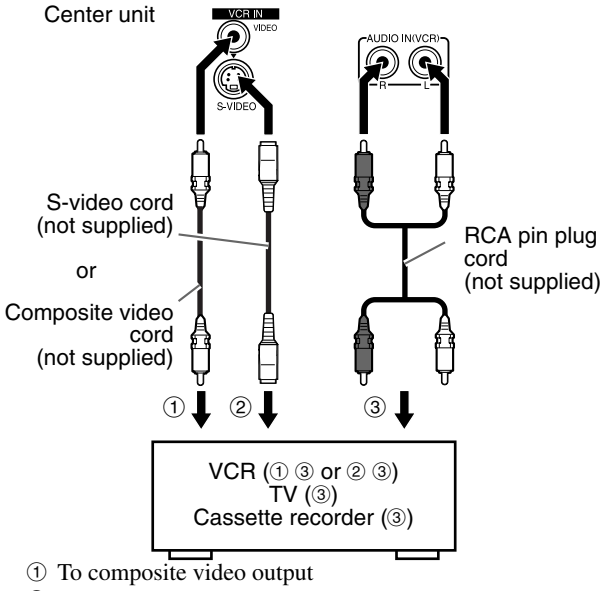


NOTE

- The way of connecting the system cord varies depending on the type of the powered subwoofer.

Connecting to an analog component

You can enjoy the sound of an analog component.



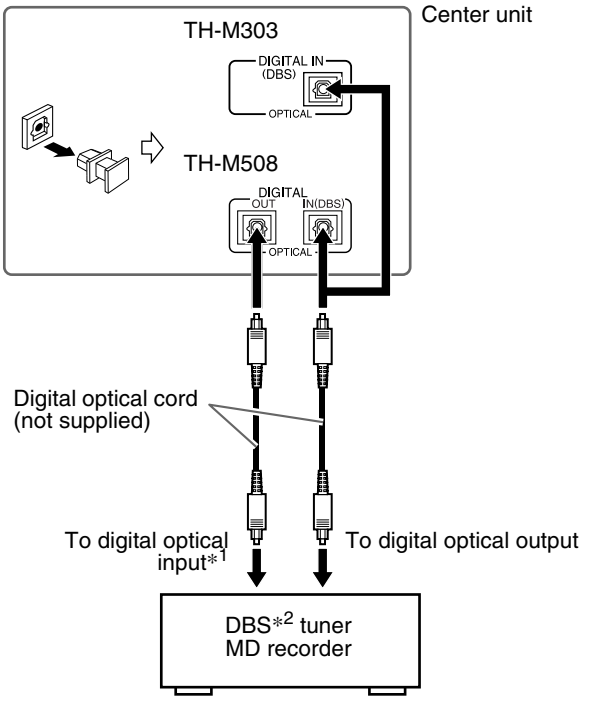
① To composite video output
② To S-video output
③ To audio output

NOTE

- The signals input to the VIDEO jack of the VCR IN jacks will be output only from the VIDEO jack of the VIDEO OUT jacks, not from the S-VIDEO jack of the VIDEO OUT jacks.

Connecting to a digital component

You can enjoy the sound of a digital component.



*1 For TH-M508 only:
This system can send digital audio signals to digital component such as MD recorder or AV receiver. For details of output signal selection, see "DIGITAL AUDIO OUTPUT" (☞ pg. 37).

*2 DBS = Direct Broadcasting Satellite

NOTE

- Only digital audio signals can be input when selecting "DBS" as the source to play. (☞ pg. 17) When connecting a video component such as a DBS tuner, operate this system to listen to the sound.
- When DBS is selected as the source, PCM signal is output from DIGITAL OUT.

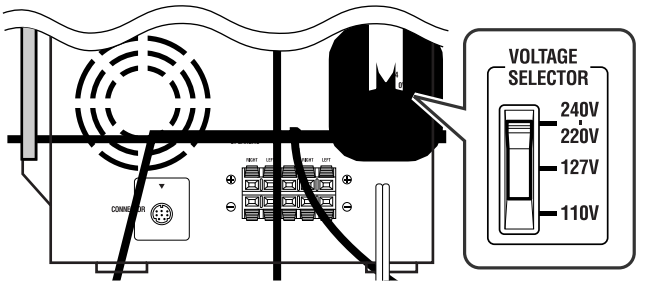
Setting the VOLTAGE SELECTOR switch

To avoid damaging the powered subwoofer, set the VOLTAGE SELECTOR switch to the voltage of your area.
When you change the position of the VOLTAGE SELECTOR switch, use a tool such as a slotted screwdriver, etc.

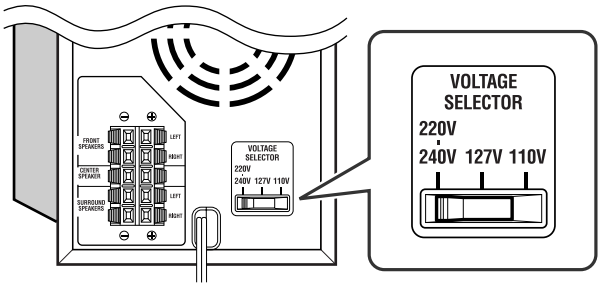
CAUTION

DO NOT plug the power cord of the powered subwoofer before setting the VOLTAGE SELECTOR switch to the correct voltage.

SP-PWM508

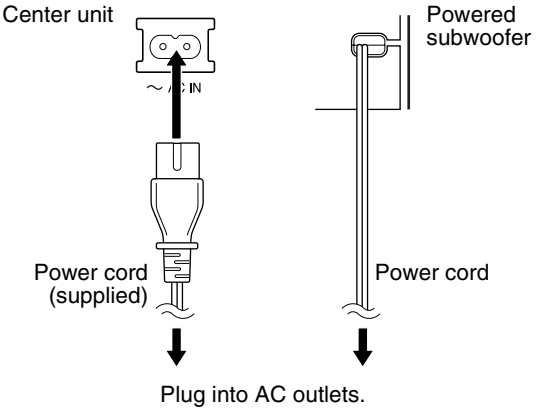


SP-PWM303 (except for Australia)



Connecting the power cord

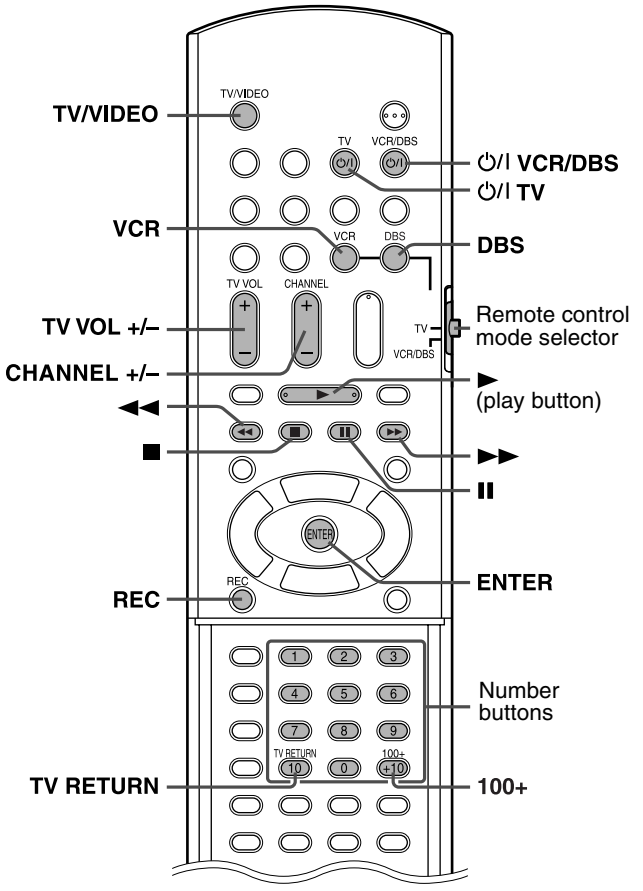
Make sure that all other connections have been completed.



CAUTION

- Disconnect the power cord before cleaning or moving the system.
- Do not pull on the power cord to unplug the cord. When unplugging the cord, always grasp and pull the plug so as not to damage the cord.
- If the AC outlets do not match the AC plugs, use the supplied AC plug adaptors.

The buttons described below are used on pages 14 and 15.



NOTE

- Manufacturers' codes are subject to change without notice.
- Set the codes again after replacing the batteries of the remote control.

Operating the TV

■ To set the manufacturer's code

You can operate a JVC TV without setting the manufacturer's code.

1 Slide the remote control mode selector to TV.

2 Press and hold ⏻/I TV.

Keep the button pressed until step 4 is finished.

3 Press ENTER.

4 Press number buttons (1-9, 0) to enter the manufacturer's code (2 digits).

Examples:
For a Hitachi TV:
Press 1, then 0.
For a Toshiba TV:
Press 0, then 8.

Manufacturer	Code	Manufacturer	Code
JVC	01	Samsung	12
Hitachi	10	Sharp	06
Magnavox	02	Sony	07
Mitsubishi	03	Toshiba	08
Panasonic	04, 11	Zenith	09
RCA	05		

5 Release ⏻/I TV.

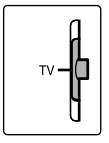
If there is more than one code listed for corresponding brand, try each one until you enter the correct one.

■ Operation

Aim the remote control at the TV.

IMPORTANT

Before using the remote control to operate a TV;
- Set the remote control mode selector to TV.



The following buttons are available:

⏻/I TV:	Turns TV on and off.
TV VOL +/–:	Adjusts the volume.
TV/VIDEO:	Selects the input mode (either TV or VIDEO).
CHANNEL +/–:	Changes the channels.
1-10, 0, +10 (100+):	Selects the channel.
TV RETURN:	Alternates between the previously selected channel and the current channel.

Operating the DBS tuner or CATV converter

■ To set the manufacturer's code

1 Slide the remote control mode selector to VCR/DBS.

2 Press DBS.

3 Press and hold ⏻/I VCR/DBS.

Keep the button pressed until step 5 is finished.

4 Press ENTER.

Continued on next page

See page 14 for button locations.

5 Press number buttons (1-9, 0) to enter the manufacturer's code (2 digits).

Examples:
For a GI Jerrold product:
Press 0, then 1.
For a Sony product:
Press 2, then 0.

Manufacturer	Code
Echostar	21
GI Jerrold	01, 02, 03, 04, 05, 06, 07, 08
Hamlin	15, 16, 17, 18
Pioneer	13, 14
RCA	19
Scientific Atlanta	09, 10
Sony	20
Zenith	11, 12

6 Release ⏻/I VCR/DBS.

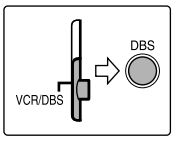
If there is more than one code listed for your brand, try each one until you enter the correct one.

■ Operation

Aim the remote control at the DBS tuner or CATV converter.

IMPORTANT

Before using the remote control to operate a DBS tuner or CATV converter;
1 Set the remote control mode selector to VCR/DBS.
2 Press DBS.



The following buttons are available:
⏻/I VCR/DBS: Turns DBS tuner or CATV converter on and off.
CHANNEL +/–: Changes the channels.
1-10, 0, +10 (100+): Selects the channel.

Operating the VCR

■ To set the manufacturer's code

1 Slide the remote control mode selector to VCR/DBS.

2 Press VCR.

3 Press and hold ⏻/I VCR/DBS.

Keep the button pressed until step 5 is finished.

4 Press ENTER.

5 Press number buttons (1-9, 0) to enter the manufacturer's code (2 digits).

Examples:
For a Philips VCR:
Press 0, then 9.
For an NEC VCR:
Press 2, then 5.

Manufacturer	Code	Manufacturer	Code
JVC	01, 02, 03	Philips	09
Emerson	11, 26	RCA	05, 06
Fisher	29	Samsung	24
Funai	10, 14, 15, 16	Sanyo	21, 22, 23
Gold Star	12	Sharp	27, 28
Hitachi	04	Shintom	30
Mitsubishi	13	Sony	18, 19, 20
NEC	25	Zenith	08
Panasonic	07, 17		

6 Release ⏻/I VCR/DBS.

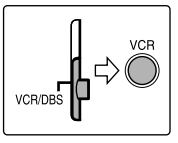
If there is more than one code listed for your brand, try each one until you enter the correct one.

■ Operation

Aim the remote control at the VCR.

IMPORTANT

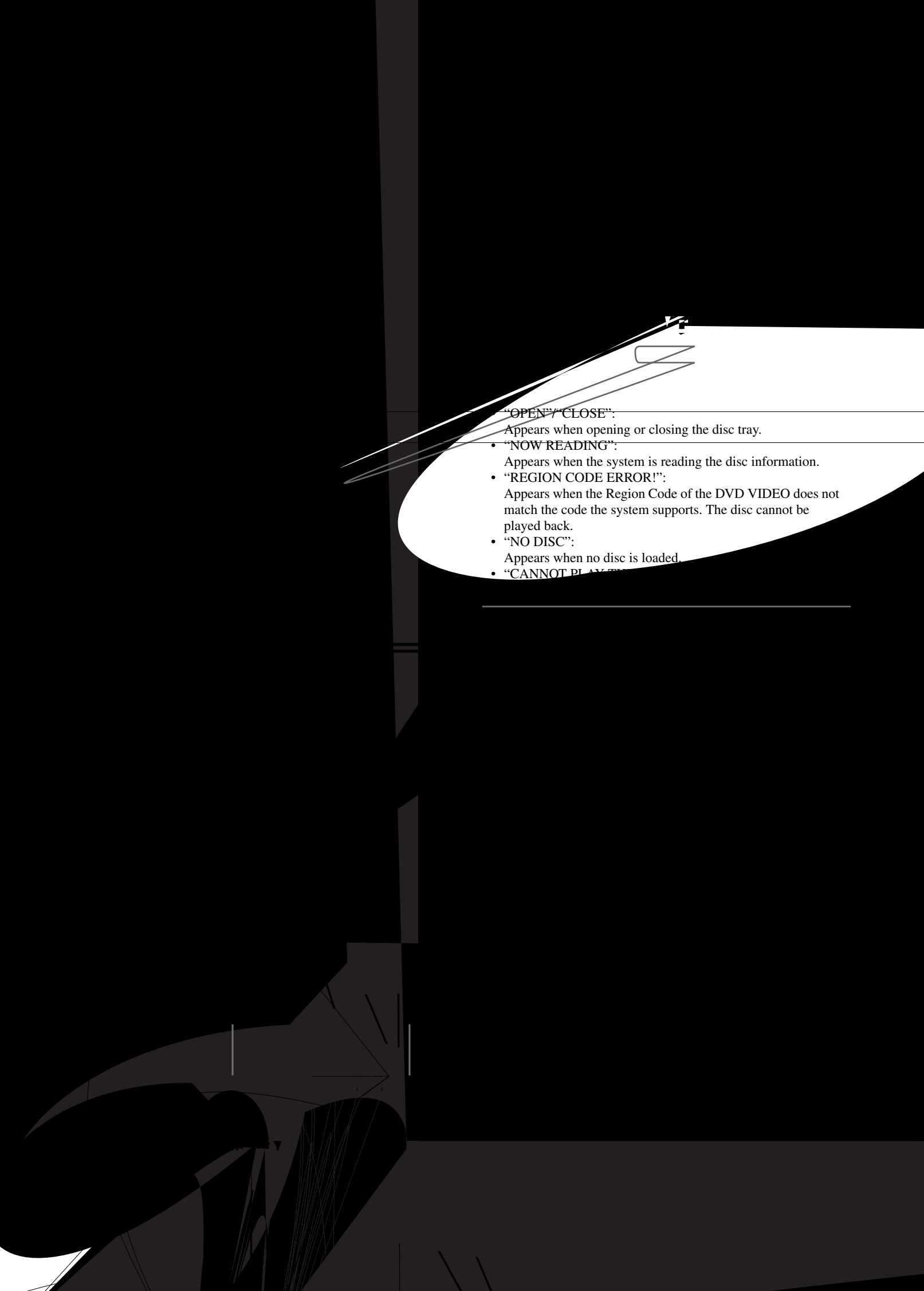
Before using the remote control to operate a VCR;
1 Set the remote control mode selector to VCR/DBS.
2 Press VCR.



The following buttons are available:
⏻/I VCR/DBS: Turns VCR on and off.
► (play button): Starts playback.
■ : Stops operation.
❚❚ : Pauses playback.
►► : Fast forwards video tape.
◄◄ : Rewinds video tape.
REC: Press this button together with ► (play button) to start recording or together with ❚❚ to pause recording.
CHANNEL +/–: Changes the TV channels on the VCR.

NOTE

When operating a VCR or DBS tuner/CATV converter;
- The source setting of VCR or DBS remains after you have changed the remote control mode selector to AUDIO or TV. When operating VCR or DBS tuner/CATV converter again, it is not necessary to press VCR or DBS after setting the remote control mode selector.



- “OPEN”/“CLOSE”:
  Appears when opening or closing the disc tray.
- “NOW READING”:
  Appears when the system is reading the disc information.
- “REGION CODE ERROR!”:
  Appears when the Region Code of the DVD VIDEO does not match the code the system supports. The disc cannot be played back.
- “NO DISC”:
  Appears when no disc is loaded.
- “CANNOT PLAY T

To

Perfor

- Press
- Press AU

Adjust
of the in
[DIMMER]

Press DIMMER.

Each time you press the button,

See page 16 for button locations.

Sleep Timer [SLEEP]

The system turns off automatically when the specified period of time has passed.

Press SLEEP.

Each time you press the button, the shut-off time changes.

Example:

To check the remaining time

Press SLEEP once.

To change the remaining time

Press SLEEP repeatedly.

To cancel

Press SLEEP repeatedly until "SLEEP OFF" appears.

- Turning off the power also cancels the Sleep Timer.

Adjusting the output level of the subwoofer and center/surround speakers [SUBWFR, CENTER, SURR L/R]

Press S.WFR +/– to adjust the subwoofer.

Press CENTER +/– to adjust the center speaker.

Press SURR.-L +/– to adjust the surround left speaker.

Press SURR.-R +/– to adjust the surround right speaker.

NOTE

- You can also make adjustments by using the setup menu shown on the TV screen. (A pg. 37)
- The adjustments take effect for all sources.
- You cannot make this adjustment when FM or AM is selected as the source.

Adjusting the treble sound [TREBLE]

Press TREBLE +/–.

NOTE

- The adjustments take effect for all sources.

Changing the scan mode

The system can be accommodated to your TV's scan mode.

NOTE

- To use the system in PROGRESSIVE mode, it is required that the center unit is connected to the TV by using a component video cord (not supplied). (A pg. 11)

■ While DVD is selected as the source and stopped

1 Press and hold SCAN MODE for 2 seconds.

Currently selected mode appears on the display window.

2 Press Cursor ►/◄ to select the desired mode.

- PAL: Select this when your TV supports the PAL interlaced video input only.
- PAL PROG.: Select this when your TV equipped with component jacks supports the PAL progressive video input.
- NTSC: Select this when your TV supports the NTSC interlaced video input only.
- NTSC PROG.: Select this when your TV equipped with component jacks supports the NTSC progressive video input.

You can get better picture quality in "PAL PROG." or "NTSC PROG." mode than in PAL or NTSC mode.

3 Press ENTER while the selected mode is displayed.

When "PAL PROG." or "NTSC PROG." is selected, the PROGRESSIVE indicator lights on the display window.

NOTE

- Although the picture may be distorted when you press ENTER, this is not a malfunction of the system.

- There are some progressive TVs and High-Definition TVs that are not fully compatible with this system, resulting in an unnatural picture when playing back a DVD VIDEO in the progressive scan mode. In such a case, change the scan mode to "PAL" or "NTSC". To check the compatibility of your TV, contact your local JVC customer service center.
- All JVC progressive TVs and High-Definition TVs are fully compatible with this system.

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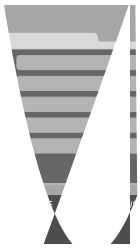


s on the di

, press
stance b
nd the list
, ENTER.

, Cursor ▼/▲ to
n press ENTER.

5 Clap your hands over

6 Make sure that "COM
appears on the TV sc
SMART S.SETUP.

The system detects your clapping
speakers, then automatically mak
speaker. "COMPLETED !" appea
Smart Surround Setup completes.

satellite
ngs for each
✓ screen when

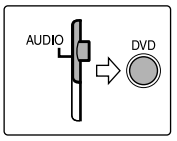
- The icon such as DVD VIDEO shows the types of discs the operation is available for.

IMPORTANT

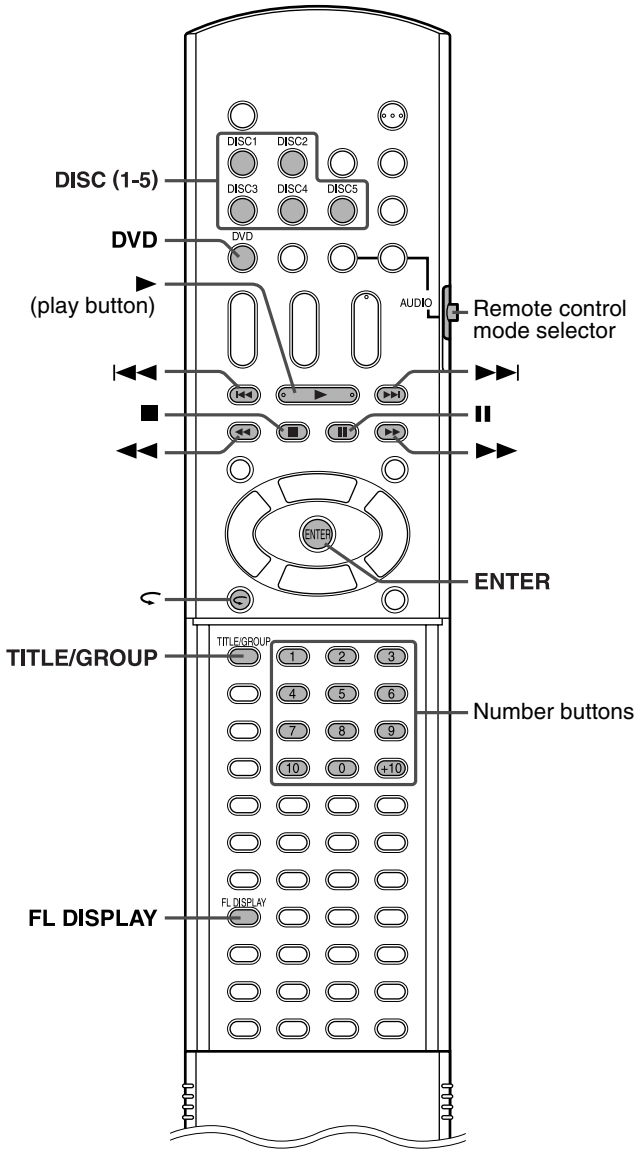
Before using the remote control for the following operation;

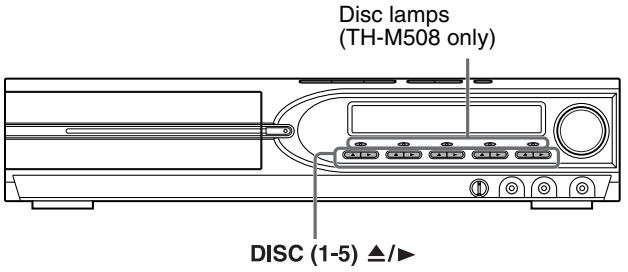
1 Set the remote control mode selector to AUDIO.

2 Press DVD.



The buttons described below are used on pages 20 to 23.





Basic playback

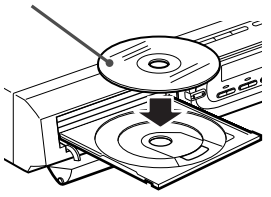
DVD VIDEO | DVD AUDIO | VCD | SVCD | CD | MP3 WMA | JPEG | MPEG 4

1 Press the desired DISC (1-5) ▲ on the center unit.

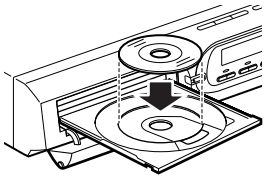
- The system turns on and the disc tray comes out.

2 Place a disc.

Label side up



When placing an 8 cm disc



3 Press DISC (1-5).

For MP3/WMA disc

The file control display (☞ pg. 28) appears on the TV screen.

For JPEG disc

Each file (still pictures) is shown on the TV screen for about 3 seconds (slide-show). When stopping playback, the file control display (☞ pg. 28) appears on the TV screen.

For MPEG4 disc

Pressing TOP MENU or MENU shows the file control display (☞ pg. 28) on the TV screen during playback.

■ To pause playback

Press II.

To return to playback, press ► (play button).

■ To stop

Press ■.

■ On-screen guide icons

During DVD VIDEO playback, the following guide icons may appear for a while on the TV screen;

- : appears at the beginning of a scene containing multi-subtitle languages.
- : appears at the beginning of a scene containing multi-audio languages.
- : appears at the beginning of a scene containing multi-angle views.
- (Play), (Pause), / (Fast forward/ fast-reverse), / (Slow-motion forward/ reverse): appears when you perform each operation.
- : the disc cannot accept an operation you have tried to do.

Continued on next page

yback

NOTE

- U discs can b
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DEO encoded with Dolby

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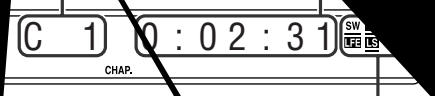
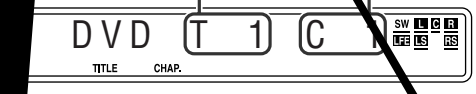


Signal and speaker indicators (A pg. 2

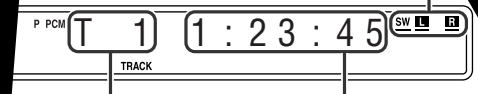
ode and digital signal format (A pg. 24)

ng FL DISPLAY

Title number Chapter number



Signal and speaker indicators



Track number

Elapsed playing tim (hour:minute:seco

essing FL DISPLAY

Group number Track n

CD/CD

CD is played back

Track numbe speaker indicators

*1

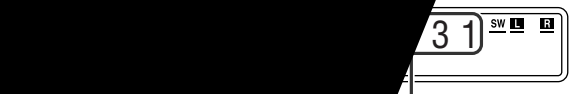
aying time (minute:second)

D indicatio VCD/SVCD.

E

en a V D with PBC function is played, the elapsed ying not appear, but "PBC" appears.

MPEG



e (minute:second)
ing playback only)

DISPLAY

Group numbe Track number

dicators

NOTE

- You can change the time JPEG/MPEG4). (A pg
- You can also check th (A pg. 25)

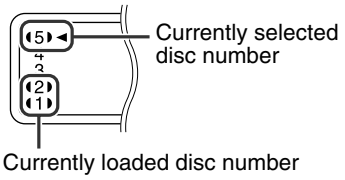
See page 20 for button locations.

■ Disc information on the display window

The disc indicators on the display window show the current status of the corresponding disc tray.

Example:

When the discs are loaded to disc trays 1, 2 and 5, and the disc in the disc tray 5 is selected.



About the disc lamps (For TH-M508)

The disc lamps on the center unit also show the disc status. Only the disc lamp currently selected lights.

■ Screen saver

A TV screen may burn out if a static picture is displayed for a long time. To prevent this, the system automatically dims the screen if a static picture is displayed for over 5 minutes (the screen saver function).

- Pressing any button will cancel the screen saver function.
- If you do not want to use the screen saver function, see page 37.

One Touch Replay

You can move back the playback position by 10 seconds from the current position.

DVD VIDEO

■ During playback

On the remote control:

Press ↶.

NOTE

- This function works in the same title.
- This feature may not work for some discs.

Fast-forward/fast-reverse search

■ During playback

DVD VIDEO | DVD AUDIO | VCD | SVCD | CD | MPEG 4

On the remote control:

Press ►► or ◄◄.

Each time you press the button, the search speed changes (×2, ×5, ×10, ×20, ×60).

To return to normal speed playback

Press ► (play button).

On the remote control and the center unit:

Press and hold ►►I or I◄◄.

Continuously pressing ►►I or I◄◄ increases the fast-forward/reverse search speed (×5 → ×20).

NOTE

- The operation with ►►I or I◄◄ above is available for a disc other than MPEG4 disc.
- When a DVD VIDEO, VCD, SVCD, or MPEG4 disc is played back, no sound comes out during fast-forward/reverse search.
- When a DVD AUDIO or CD is played back, sound is intermittent and low during fast-forward/reverse search.
- This feature may not work for some discs.

Skip to the beginning of a desired selection

■ Using ►►I/I◄◄ buttons

DVD VIDEO | DVD AUDIO | VCD | SVCD | CD | MP3 WMA | JPEG | MPEG 4

■ For DVD VIDEO (chapter):
During playback
For VCD/SVCD (track):
During playback without PBC function
For DVD AUDIO/CD/MP3/WMA/JPEG/MPEG4 (track/file):
During playback or while stopped

Press ►►I or I◄◄ repeatedly.

NOTE

- When playing back an MP3/WMA disc, you can make operations using the file control display. (A pg. 28)
- This feature may not work for some discs.

Continued on next page

See page 20 for button locations.

■ Using number buttons on the remote control

■ For DVD VIDEO (title, chapter):
While stopped, the title number is selected.
During playback, the chapter number is selected.

For DVD AUDIO (track):
During playback or while stopped
For VCD/SVCD (track):
During playback without PBC function
For CD/MP3/WMA/JPEG/MPEG4 (track/file):
During playback or while stopped

Press number buttons (0-10, +10) to select the desired number.

- For details on using the number buttons, see "How to use the number buttons" below.

How to use the number buttons

To select 3:	Press 3.
To select 14:	Press +10, then 4.
To select 24:	Press +10 twice, then 4.
To select 40:	Press +10 three times, then 10. Or press +10 four times, then 0.

Locating a desired title/group using number buttons

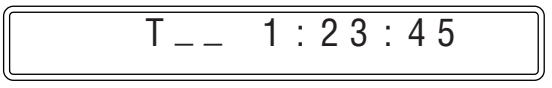
■ During playback or while stopped

DVD VIDEO | DVD AUDIO | MP3 WMA | JPEG | MPEG 4

1 Press TITLE/GROUP.

"_ _" or "_" is shown in the title/group display area in the display window.

Example:
During DVD VIDEO playback



2 While the display window shows "_ _" or "_", use number buttons (0-10, +10) to enter the desired title or group number.

The system starts playback from the first chapter/track/file of the selected title/group.

- For details on using the number buttons, see "How to use the number buttons" above.

NOTE

- This feature may not work for some discs.

Playing back a bonus group

DVD AUDIO

Some DVD AUDIOs have a special group called "bonus group" whose contents are not open to the public. The bonus group is always assigned to the last group of a disc. To play back a bonus group, you have to enter the specific "key number" (a password). The way of getting the key number depends on the disc. After getting the key number, you can play back the bonus group by following the procedure below.

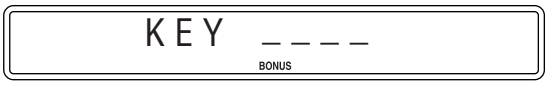
■ While the BONUS indicator lights up on the display window

1 Select the bonus group.

For selecting the group, see "Locating a desired title/group using number buttons" described above.
The key number entry indication appears.

On the TV

On the display window



2 Press number buttons (0-9) to enter the key number, then press ENTER.

When you enter the correct key number, playback starts and the BONUS indicator goes off.

- If you enter the wrong number, reenter the correct number.

To clear the key number entry

Perform whichever one of the following:

- Press ■.
- Open the disc tray.
- Turn off the system.

NOTE

- In Random Playback, tracks in the bonus group are not played back.

ignal

	Dolby Surround				DTS Digital Surround	Linear PCM	Packe PCM	
	PL II MOVIE*3	PL II MUSIC*3	Dolby Digital	DTS	LPCM	PPCM	ST.
B	—	—	B	—	—	—	—
B	B	B	—	—	—	—	B
B	—	—	—	B	—	—	—
B	B	B	B	—	—	—	B
B	B	B	B	—	—	—	B
B	B	—	—	—	—	B	B	—
cked channel)								

*2 Dig regist of Digi Systems,

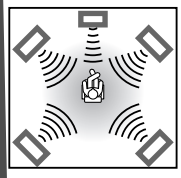
*3 You can sel modes by pre SURROUND. (A pg. 25)

Continued on next page

See page 14 for button locations.

e can reproduce a larger
d (and activated) speakers.
producing 2 channel stereo

l Channel Stereo



dow

UDIO packed PCM signals

PCM signal comes in.
Digital signals come in.
gital (Surround) signals

cator lights when analog

ors

nel sig
nel signal co
channel signal or 2
es in.

responding speakers are

annel is reproduced, only

de

t the optimal surro
annel software)
an select the

ow.

■ When playing back digital multi nnel software (except during SURR OFF mode

The appropriate multichannel surround mo Dolby Digital, DTS Digital Surround or Linear/Packed PCM) i omatically selected.

■ When playing back 2 channel s e

You can select either mode of Dolby Pro L II (PL II MOVIE/ PL II MUSIC) or the DSP (ALL CH ST.) r

Press SURROUND repeated to select the desired mode.

The surround mode is turned on and the cu surround mode appears on the display window.
Each time you press the button, the surroun ode changes.

For details on each mode, see page 24.

To turn off the surround mode

Press SURROUND repeated until SURP OFF appears on the display ndow.

Storing adjustments — auto memory

When you turn the power off, the system me rizes surround mode. The memorized mode is aut when you turn the power on.

rce, y annot select any

s no effect MPEG4 playback.
DVD AUDIO c, the system
annel signals wi "MULTI CH" shown
en if the surround m is turned off during
nand, the system outpu only the front left and
signals with "LR ONLY" own on the
u start playback with the surr
OFF".

use

ba

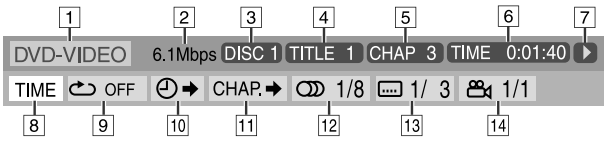
OFF
(The on-screen bar disappears)

(back to the beginning)

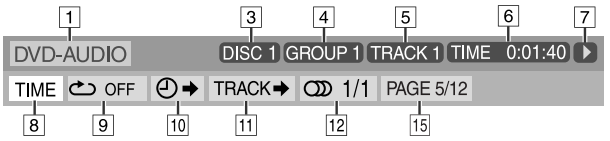
See page 24 for button locations.

■ Contents of the on-screen bar during playback

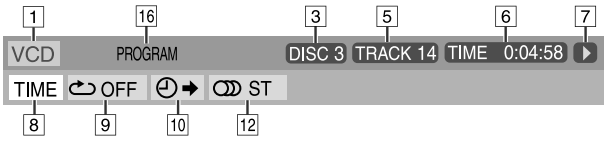
DVD VIDEO



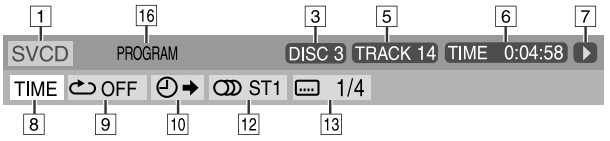
DVD AUDIO



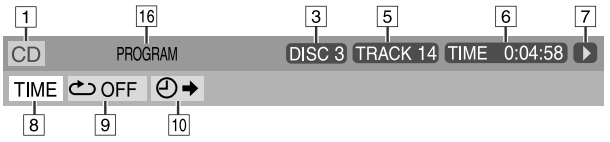
VCD



SVCD



CD



MPEG4*

* 8 – 15 are not available.

1 Shows disc type.
2 Shows current transfer rate (Megabits per second).
3 Shows disc number.
4 Shows current title (for DVD VIDEO) or group (for DVD AUDIO) number.
5 Shows current chapter number (for DVD VIDEO) or track number (for other type of discs).
6 Shows time information. See "Changing the time information" below.
7 Shows playback status.
: appears during playback.
/ : appears during fast forward/reverse.
/ : appears during playback in forward slow-motion/ reverse slow-motion.
: appears when paused.
: appears when stopped.
8 Select this to change time information (6). See "Changing the time information" below.
9 Select this for Repeat Playback. (A pg. 33)
10 Select this for time search function. (A pg. 28)
11 Select this for chapter (for DVD VIDEO) or track (for DVD AUDIO) search function. (A pg. 27)
12 Select this to change audio language, channel, or stream. (A pg. 30)
13 Select this to change subtitle language. (A pg. 29)
14 Select this to change view angle. (A pg. 29)
15 Select this to change the page. (A pg. 31)
16 Shows Playback Mode status.
PROGRAM: appears during Program Playback. (A pg. 32)
RANDOM: appears during Random Playback. (A pg. 33)
17 Shows Repeat Mode status. (A pg. 33)

Changing the time information

DVD VIDEO | DVD AUDIO | VCD | SVCD | CD

You can change the time information in the on-screen bar on the TV screen and the display window of the center unit.

■ During playback

1 Press ON SCREEN twice.

The on-screen bar appears on the TV screen.

2 Press Cursor ►/◄ to highlight TIME.

3 Press ENTER repeatedly to select the desired information.

Example:

When elapsed playing time of disc is selected.

TOTAL 1:25:58

- TIME: Elapsed playing time of current chapter/track
- REM: Remaining time of current chapter/track
- TOTAL: Elapsed time of disc
- T. REM: Remaining time of disc

4 Press ON SCREEN.

The on-screen bar disappears.

See page 24 for button locations.

Playing from a specified position on a disc

You can start playing a title, chapter or track you specify. You can also play a disc from specified time.

Locating a desired scene from the DVD menu

DVD VIDEOs generally have their own menus which show disc contents and you can display them on the TV screen. You can locate a desired scene by using these menus.

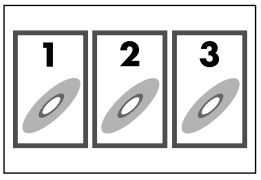
DVD VIDEO

■ Whenever a DVD VIDEO is loaded

1 Press TOP MENU or MENU.

The menu appears on the TV screen.

Example:



Normally, a DVD VIDEO which contains more than one title will have a "top" menu which lists the titles. Press TOP MENU to show the title menu.
Some DVD VIDEO may also have a different menu which is shown by pressing MENU.
See the instructions for each DVD VIDEO regarding its particular menu.

2 Use Cursor ►/◄/▼/▲ to select a desired item.

3 Press ENTER.

- With some discs, you can also select items by entering the corresponding number using number buttons.

Locating a desired scene using a VCD/ SVCD menu with PBC

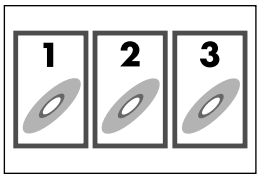
A VCD or SVCD recorded with PBC has its own menus such as a list of contained songs. You can locate a specific scene by using these menus.

VCD SVCD

■ During playback with PBC function

1 Press RETURN repeatedly until the menu appears on the TV screen.

Example:



2 Press number buttons (1-10, +10) to select the number of the desired item.

- For details on using the number buttons, see "How to use the number buttons" (☞ pg. 23).

To return to the menu

Press RETURN.

When "NEXT" or "PREVIOUS" is shown on the TV screen:

- To go to the next page, press ►►I.
- To return to the previous page, press I◄◄.

NOTE

- If you want to play a PBC-compatible VCD/SVCD without using the PBC function, perform any of the following:
  - Start playback by pressing number buttons while stopped.
  - Press ►►I repeatedly until the desired track number is displayed, then start playback by pressing ► (play button).
    The track number appears on the display window instead of "PBC".
- To activate the PBC function when playing a PBC-compatible VCD/ SVCD without using the PBC function, perform any of the following:
  - Press TOP MENU or MENU.
  - Press ■ twice to stop playback, then press ► (play button).

Locating a desired chapter/track using the on-screen bar

■ During playback

DVD VIDEO DVD AUDIO

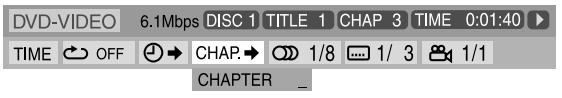
1 Press ON SCREEN twice.

The on-screen bar appears on the TV screen.

2 Press Cursor ►/◄ to highlight CHAP.➔/ TRACK➔.

3 Press ENTER.

Example:
During DVD VIDEO playback



4 Press number buttons (0-9) to enter the desired chapter number.

Example:
To select 8: Press 8.
To select 10: Press 1, then 0.
To select 20: Press 2, then 0.
To select 37: Press 3, then 7.

To correct a misentry

Repeat step 4.

See page 24 for button locations.

5 Press ENTER.

6 Press ON SCREEN.

The on-screen bar disappears.

NOTE

- You can select up to the 99th chapter/track.

Locating a desired position by specifying the time

■ For DVD VIDEO/DVD AUDIO:
During playback

DVD VIDEO DVD AUDIO VCD SVCD CD

For VCD/SVCD:
While stopped or during playback without PBC function

For CD:
During playback or while stopped

■ When specifying the elapsed playing time from the beginning of the disc

Perform the following procedure while stopped.

■ When specifying the elapsed playing time from the beginning of the current title/track

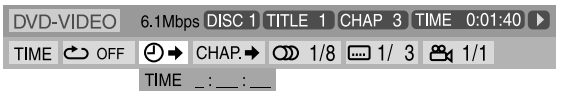
Perform the following procedure during playback.

1 Press ON SCREEN twice.

The on-screen bar appears on the TV screen.

2 Press Cursor ►/◄ to highlight ⏲➔.

3 Press ENTER.



4 Use number buttons (0-9) to enter the time.

Example:

To play back from a point 2 (hours): 34 (minutes): 08 (seconds) elapsed

TIME _ : __ : __ ⇨ (Press 2) TIME 2 : __ : __ ⇨ (Press 3)

TIME 2 : 3 _ : __ ⇨ (Press 4) TIME 2 : 3 4 : __ ⇨ (Press 0)

TIME 2 : 3 4 : 0 _ ⇨ (Press 8) TIME 2 : 3 4 : 0 8

To cancel a misentry

Press Cursor ◄ repeatedly.

5 Press ENTER.

6 Press ON SCREEN.

The on-screen bar disappears.

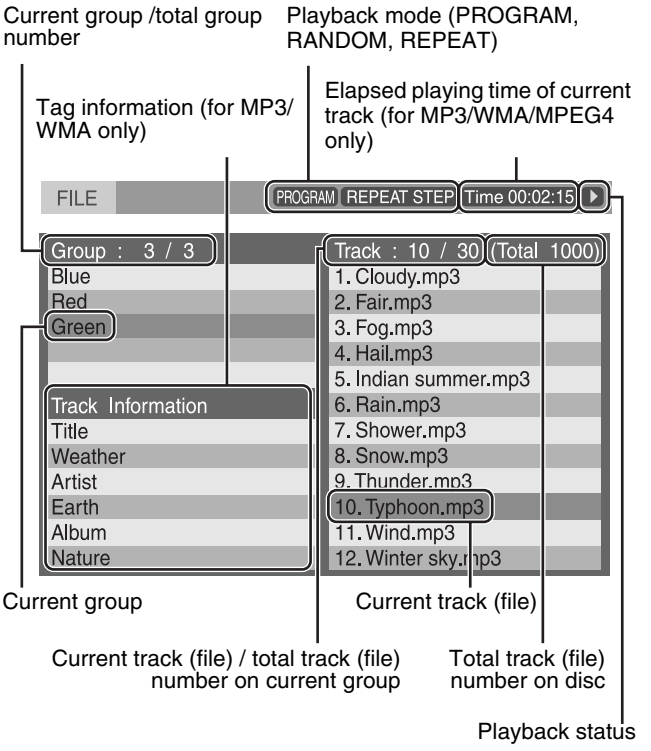
NOTE

- You can specify time in hours/minutes/seconds for DVD VIDEO/ DVD AUDIO and in minutes/seconds for VCD/SVCD/CD.

Using the file control display

You can search and play desired groups and tracks/files using the file control display on the TV screen.

MP3 WMA JPEG MPEG 4



The file control display appears automatically during playback (MP3/WMA) or while stopped.

Continued on next page

See page 24 for button locations.

■ For MP3/WMA:
During playback or while stopped
For JPEG/MPEG4:
While stopped

1 Press Cursor ►/◄/▼/▲ to select the desired group/track/file.

- For MP3/WMA, playback starts from the selected track.

2 Press ► (play button) or ENTER.

- Track playback/slide-show starts from the selected track/file.
- When you press ENTER for JPEG, only the selected file is played back.

NOTE

- During playback, you can locate the desired track/file by pressing ►►I/I◄◄ or Cursor ▲/▼.
- You can also check playback information on the display window. (A pg. 21)
- Some group, track and file names may not be displayed correctly depending on recording conditions.
- The order of groups, tracks and files may be displayed differently from the order displayed on your personal computer.

Resume Playback

DVD VIDEO | DVD AUDIO | VCD | SVCD

When Resume Playback is set to "ON" (A pg. 38) and you stop playback by the following operations, the position where playback has been stopped is stored. ("RESUME" appears on the display window.)

- Turning off the power (A pg. 16)
- Pressing ■ once
- Changing the source (A pg. 17)

To start playback from the stored position

Press ► (play button) or DVD.

- There may be a case where ► (play button) does not work after changing the source.

To clear the stored position

Press ■ again or open the disc tray with the playback disc.

Selecting a view angle

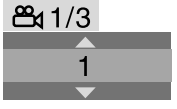
■ During playback of a disc containing multi-view angles

DVD VIDEO | DVD AUDIO

When using the ANGLE button:

1 Press ANGLE.

Example:
The first view angle is selected out of 3 view angles recorded.



2 Press ANGLE repeatedly or press Cursor ▼/▲ to select the desired view angle.

When using the on-screen bar:

1 Press ON SCREEN twice.

The on-screen bar appears on the TV screen.

2 Press Cursor ►/◄ to highlight 1/3.

3 Press ENTER.

4 Press Cursor ▼/▲ to select the desired view angle.

5 Press ENTER.

6 Press ON SCREEN.

The on-screen bar disappears.

NOTE

- During DVD AUDIO playback, this feature is available only for the video part.

Selecting the subtitle

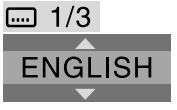
■ During playback of a disc containing subtitles in several languages

DVD VIDEO | DVD AUDIO | SVCD

When using the SUBTITLE button:

1 Press SUBTITLE.

Example (DVD VIDEO):
"ENGLISH" is selected out of 3 subtitle languages recorded.



2 Press Cursor ▼/▲ to select the desired subtitle.

For SVCD

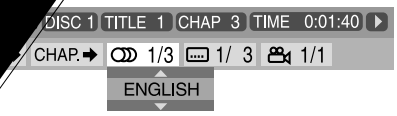
- An SVCD can contain up to four subtitles. Pressing SUBTITLE changes the subtitles regardless of whether the subtitles are recorded or not. (Subtitles will not change if no subtitle is recorded.)

NOTE

- To clear the subtitle, press SUBTITLE. Each time you press SUBTITLE, subtitle appears and disappears alternately.

press
desired audio.

ce.
e TV screen.
to highlight 1/3 **.**



sl
The sy
2 Press
• Playback
For DVD VIDE
• To play back i
Each time you press
faster.
Example: On the TV
1/32

To return to normal playback
Press ► (play button).

NOTE
• Sound cannot be heard during slow-motion p
• During DVD AUDIO playback, this feature is
video part.

See page 24 for button locations.

Selecting browsable still picture recorded on DVD AUDIO

Most DVD AUDIOs include browsable still pictures (B.S.P.), which usually appear by turns automatically during playback according to the playback sequence. You can change the picture (turn the page) manually when the current group/track has selectable pictures (pages).

DVD AUDIO

■ During playback and while the B.S.P. indicator lights up on the display window

When using the PAGE button:

Press PAGE repeatedly to select a desired still picture.

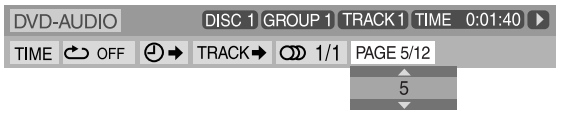
When using the on-screen bar:

1 Press ON SCREEN twice.

The on-screen bar appears on the TV screen.

2 Press Cursor ►/◄ to highlight PAGE.

3 Press ENTER.



4 Press Cursor ▲/▼ to select the desired still picture.

5 Press ENTER.

6 Press ON SCREEN.

The on-screen bar disappears.

Zooming in

■ During playback or while paused

DVD VIDEO DVD AUDIO VCD SVCD JPEG MPEG 4

1 Press ZOOM.

Each time you press ZOOM, scene magnification changes.

2 While zoomed in, press Cursor ►/◄/▼/▲ to move zoom-in area.

To return to normal playback

Press ZOOM repeatedly to select ZOOM OFF.

NOTE

- The number of the magnification steps varies depending on the disc type.
- During slide-show playback of a JPEG disc, zooming in is not available. In such a case, press ❚❚ to pause slide-show playback, then zoom in.
- During DVD AUDIO playback , this feature is available only for the video part.
- During MPEG4 playback, there may be a case where Cursor ►/◄/▼/▲ does not work in step 2 above.

Changing the VFP setting

The VFP (Video Fine Processor) function enables you to adjust the picture character according to the type of programming, picture tone or personal preference.

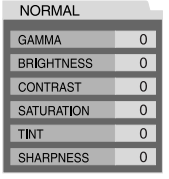
DVD VIDEO DVD AUDIO VCD SVCD JPEG MPEG 4

■ During playback

1 Press VFP.

The current VFP settings appear on the TV screen.

Example:



2 Press Cursor ►/◄ repeatedly to select the VFP mode.

- NORMAL: Normally select this.
- CINEMA: Suitable for movies.

When you select “NORMAL” or “CINEMA”, press VFP to complete the setting.

- USER 1 and USER 2:
  You can adjust parameters that affect picture appearance.

Only when selecting “USER 1” or “USER 2” in step 2, proceed to perform the following operation;

3 Press Cursor ▼/▲ repeatedly to select a parameter you want to adjust.

Adjust gradually and confirm picture appearance results are as preferred.

- GAMMA:
  Controls brightness of neutral tints while maintaining brightness of dark and bright portions.
- BRIGHTNESS:
  Controls screen brightness.
- CONTRAST:
  Controls screen contrast.
- SATURATION:
  Controls screen color depth.
- TINT:
  Controls screen tint.
- SHARPNESS:
  Controls screen sharpness.

See page 24 for button locations.

4 Press ENTER.

Example:

5 Press Cursor ▼/▲ to change the setting.

6 Press ENTER.

The current VFP settings appear again.

7 Repeat steps 3 to 6 to adjust other parameters.

8 Press VFP.

NOTE

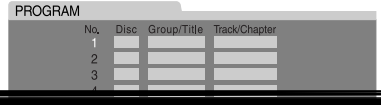
- Although the setting display disappears in the middle of the procedure, the setting at that time will be stored.

Program Playback

■ While stopped

DVD VIDEO | DVD AUDIO | VCD | SVCD | CD | MP3 WMA

1 Press PLAY MODE repeatedly until program window appears on the TV screen.



2 Follow the instructions that appears on the TV screen to program the desired chapters/ tracks.

- For details on using the number buttons, see “How to use the number buttons” (A pg. 23).
- The content’s numbers that you have to specify for programming varies depending on the disc type:
  - DVD VIDEO: Titles and chapters
  - VCD, SVCD, CD: Tracks
  - DVD AUDIO, MP3, WMA: Groups and tracks
- Before you program the tracks in bonus group on a DVD AUDIO, perform the procedure of “Playing back a bonus group” (A pg. 23) to turn off the BONUS indicator on the display window.
- You can specify the chapters/tracks whose number is up to 99.
- There may be a case that the group or title number can be entered even for discs that contain no groups or titles. In such a case, press ENTER to proceed to the Track/Chapter column.
- When you press ENTER instead of the number buttons in the Track/Chapter column, “ALL” appears and all the tracks or chapters on the selected group or title are programmed as a step.

To clear the programs one by one from the last entered number

Press CANCEL repeatedly.

To clear all programs

Press ■.

You can also clear the program by turning off the system.

3 Press ► (play button).

If all of the programmed tracks/files have been played back,

See page 24 for button locations.

Random Playback

You can play titles or tracks on a disc in random order.

DVD VIDEO | DVD AUDIO | VCD | SVCD | CD | MP3 WMA

■ While stopped

1 Press PLAY MODE repeatedly until RANDOM appears on the TV screen.

2 Press ► (play button).

- When more than one discs are loaded, the system starts Random Playback of the next disc after completing current disc playback.

To quit Random mode

While stopped, press PLAY MODE repeatedly until both program window and RANDOM disappear from the TV screen.
You can also clear the Random mode by turning off the system.

NOTE

- The same title/track will not be played back more than once during Random Playback.

Repeat Playback

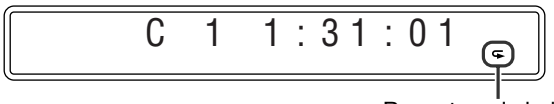
Repeating the current selection or all discs

■ For DVD VIDEO:
During playback
For VCD/SVCD:
During playback without PBC function or stopped
For DVD AUDIO/CD/MP3/JPEG/MPEG4:
During playback or stopped

DVD VIDEO | DVD AUDIO | VCD | SVCD | CD | MP3 WMA | JPEG | MPEG 4

When using the REPEAT button:

Press REPEAT.



Repeat mode indicator

Each time you press REPEAT, the Repeat mode changes.

Display window	TV screen	Meanings
	GROUP	Repeats the current group for DVD AUDIO/MP3/WMA/JPEG/MPEG4 disc.
	REPEAT GROUP	
	TITLE	Repeats the current title for DVD VIDEO.
DISC	DISC	Repeats all tracks on the current disc for VCD/SVCD/CD/MP3/WMA/JPEG/MPEG4.
	REPEAT DISC	
ALL	ALL	Repeats all the available discs.
	REPEAT ALL	
1	TRACK, STEP	Repeats the current track for DVD AUDIO/VCD/SVCD/CD/MP3/WMA/MPEG4 disc.
	REPEAT TRACK, REPEAT STEP	
	CHAP, STEP	Repeats the current chapter for DVD VIDEO.
	REPEAT STEP	
No indication	OFF	Repeat mode is off. The system plays back all available discs normally.

NOTE

- For DVD VIDEO and DVD AUDIO, REPEAT ALL and REPEAT DISC may not be available depending on the disc.

When using the on-screen bar (except for MP3/WMA/JPEG/MPEG4 disc):

1 Press ON SCREEN twice.

The on-screen bar appears on the TV screen.

2 Press Cursor ►/◄ to highlight OFF.

3 Press ENTER.

4 Press Cursor ▼/▲ repeatedly to select the Repeat mode.

5 Press ENTER.

6 Press ON SCREEN.

The on-screen bar disappears.

To cancel Repeat Playback

Select “OFF” in step 4.

See page 24 for button locations.

Repeating a desired part [A-B Repeat]

You can repeat playback of a desired part by specifying the beginning (point A) and ending (point B).

DVD VIDEO | DVD AUDIO | VCD | SVCD | CD

■ During playback

1 Press ON SCREEN twice.

The on-screen bar appears on the TV screen.

2 Press Cursor ►/◄ to highlight OFF.

3 Press ENTER.

4 Press Cursor ▼/▲ repeatedly to select "A-B".

5 Press ENTER at the beginning of the part you want to repeat (point A).

6 Press ENTER at the end of the part you want to repeat (point B).

A-B Repeat Playback starts.

7 Press ON SCREEN.

The on-screen bar disappears.

To cancel

Select "OFF" in step 4, then press ENTER.

NOTE

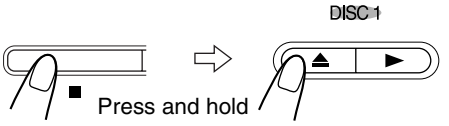
- When playing back a DVD VIDEO, A-B Repeat Playback is possible only within the same title.
- "A-B" cannot be selected during Program and Random Playback.

Tray lock

You can lock trays and prohibit the unwanted disc ejection.

On the center unit ONLY:

While the system is turned off



- The system turns on and "LOCKED" appears on the display window.
- If you try to eject discs, "LOCKED" appears to indicate that trays are locked.

To cancel

Carry out the same operation again.

- The system turns on and "UNLOCKED" appears on the display window.

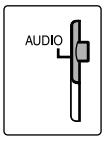
See page 24 for button locations.

Sound and other settings

IMPORTANT

Before using the remote control for the following operation;

- Set the remote control mode selector to AUDIO.



NOTE

Before you start operation;

- There is a time limit when doing the following steps. If the setting is cancelled before you finish, start from step 1 again.

1 Press SETTING.

Example:

2 Press Cursor ▼/▲ to select the item you want to set.

- BAL (Balance):
  You can adjust the balance between the front left and front right speakers.
- DEC (Decode):
  When you play an external source (DBS is selected as a source) that was encoded with Dolby Digital or DTS Digital Surround, the following symptoms may occur;
  - No sound comes out at the beginning of playback.
  - Noise comes out while searching for or skipping chapters or tracks.

  AUT/PCM (Auto/PCM):
  Normally select this. The system automatically detects the incoming signals.
  DOLBY D: Select this if the symptoms above occur when playing a disc (or software) encoded with Dolby Digital.
  DTS: Select this if the symptoms above occur when playing a disc (or software) encoded with DTS Digital Surround.
- M. OUT (Monitor Out):
  Select the video output jack type by which you watch DVD playback after connecting your TV. (A pg. 11)
  Set the video output to use AV COMPU LINK remote control system. (A pg. 42)

  VIDEO: To watch DVD playback via the VIDEO jack.
  S: To watch DVD playback via the S-VIDEO jack.
  COMPNT (component):
  To watch DVD playback via the COMPONENT VIDEO OUT jacks.
- DiscIll (For TH-M508):
  When you select DVD as the source and leave the system in stop mode for 5 minutes, the disc lamps starts illuminating.

3 Press Cursor ►/◄ to make an adjustment or selection.

Example:

The adjustment is set and the display automatically disappears a few seconds later.

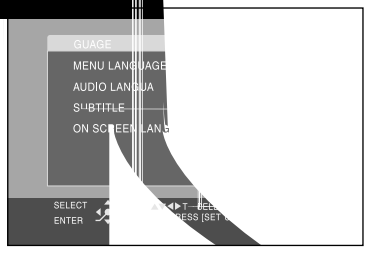
NOTE

- When “DOLBY D” or “DTS” is selected, if a signal encoded with another digital format comes in, you cannot listen to the sound. (The DD D or dts indicator flashes.)

Setting DVD p

Using the s

• You can change the langua
"Menu description" below



**2 Follow the ins at a
the TV screer**

Menu des

A: Language m

■ MENU LANGUAGE

Some DVDs have their ov
• Select the initial langua

■ AUDIO LANGUAG

AA	Afar	IK	Inupiak	RN	Kirundi
AB	Abkhazian	IN	Indonesian	RO	Rumanian
AF	Afrikaans	IS	Icelandic	RU	Russian
AM	Ameharic	IW	Hebrew	RW	Kinyarwanda
AR	Arabic	JI	Yiddish	SA	Sanskrit
AS	Assamese	JW	Javanese	SD	Sindhi
AY	Aymara	KA	Georgian	SG	Sangho
AZ	Azerbaijani	KK	Kazakh	SH	Serbo-Croatian
BA	Bashkir	KL	Greenlandic	SI	Singhalese
BE	Byelorussian	KM	Cambodian	SK	Slovak
BG	Bulgarian	KN	Kannada	SL	Slovenian
BH	Bihari	KO	Korean (KOR)	SM	Samoan
BI	Bislama	KS	Kashmiri	SN	Shona
BN	Bengali, Bangla	KU	Kurdish	SO	Somali
BO	Tibetan	KY	Kirghiz	SQ	Albanian
BR	Breton	LA	Latin	SR	Serbian
CA	Catalan	LN	Lingala	SS	Siswati
CO	Corsican	LO	Laothian	ST	Sesotho
CS	Czech	LT	Lithuanian	SU	Sundanese
CY	Welsh	LV	Latvian, Lettish	SV	Swedish
DA	Danish	MG	Malagasy	SW	Swahili
DZ	Bhutani	MI	Maori	TA	Tamil
EL	Greek	MK	Macedonian	TE	Telugu
EO	Esperanto	ML	Malayalam	TG	Tajik
ET	Estonian	MN	Mongolian	TH	Thai
EU	Basque	MO	Moldavian	TI	Tigrinya
FA	Persian	MR	Marathi	TK	Turkmen
FI	Finnish	MS	Malay (MAY)	TL	Tagalog
FJ	Fiji	MT	Maltese	TN	Setswana
FO	Faroese	MY	Burmese	TO	Tonga
FY	Frisian	NA	Nauru	TR	Turkish
GA	Irish	NE	Nepali	TS	Tsonga
GD	Scots Gaelic	NL	Dutch	TT	Tatar
GL	Galician	NO	Norwegian	TW	Twi
GN	Guarani	OC	Occitan	UK	Ukrainian
GU	Gujarati	OM	(Afan) Oromo	UR	Urdu
HA	Hausa	OR	Oriya	UZ	Uzbek
HI	Hindi	PA	Panjabi	VI	Vietnamese
HR	Croatian	PL	Polish	VO	Volapuk
HU	Hungarian	PS	Pashto, Pushto	WO	Wolof
HY	Armenian	PT	Portuguese	XH	Xhosa
IA	Interlingua	QU	Quechua	YO	Yoruba
IE	Interlingue	RM	Rhaeto-Romance	ZU	Zulu

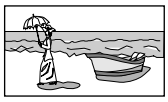
Continued on next page

:Picture menu (PICTURE)

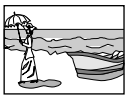
■ MONITOR TYPE

You can select the monitor type to match your TV when you play DVDs recorded in the picture's height/width ratio of 16:9.

- **16:9/16:9 MULTI (Wide television conversion)**
  Select this when the aspect ratio of your TV is 16:9 (wide TV).
- **4:3 LB/4:3 MULTI LB (Letter Box conversion)**
  Select this when the aspect ratio of your TV is 4:3 (conventional TV). While viewing a wide screen picture, the black bars appear on the top and the bottom of the screen.
- **4:3 PS/4:3 MULTI PS (Pan Scan conversion)**
  Select this when the aspect ratio of your TV is 4:3 (conventional TV). While viewing a wide screen picture, the black bars do not appear, however, the left and right edges of the pictures will not be shown on the screen.


Ex.: 16:9

Ex.: 4:3 LB


Ex.: 4:3 PS

NOTE

- Even if "4:3 PS" or "4:3 MULTI PS" is selected, the screen size may become "4:3 LB" or "4:3 MULTI LB" with some DVDs. This depends on how DVDs are recorded.
- When selecting "MULTI" options as the monitor type for the multi-color system TV, this system outputs PAL or NTSC video signal according to the disc, regardless of the scan mode setting. (☞ pg. 18)

■ PICTURE SOURCE

When you set the scan mode to PROGRESSIVE (☞ pg. 18), you can obtain optimal picture quality by selecting whether the content on the disc is processed by field (video source) or by frame (film source).
Normally set to "AUTO".

- **AUTO**
  Used to play a disc containing both video and film source materials.
  This system recognizes the source type (video or film) of the current disc according to the disc information.
  - If the playback picture is unclear or noisy, or the oblique lines of the picture are rough, try to change to other modes.
- **FILM**
  Suitable for playing back a film source disc.
- **VIDEO**
  Suitable for playing back a video source disc.

■ SCREEN SAVER (☞ pg. 22)

You can activate or deactivate Screen Saver function.

■ FILE TYPE

When several types of files are recorded on a disc, you can select which files to play. If you have changed FILE TYPE setting, be sure to turn the power off, then turn the power on to enable the new setting.

- **AUDIO**
  Select this to play MP3/WMA files.
- **STILL PICTURE**
  Select this to play JPEG files.
- **VIDEO**
  Select this to play MPEG4 files.

: Audio menu (AUDIO)

■ DIGITAL AUDIO OUTPUT

You can select the appropriate mode according to the type of the device connected to DIGITAL OUT connector. (TH-M508 only)

- **PCM ONLY**
  Select this when you connect the linear PCM digital input of other audio equipment (amplifier, MD, or DAT deck, etc.).
- **DOLBY DIGITAL/PCM**
  Select this when you connect the digital input connector of a Dolby Digital decoder or an amplifire with a built-in Dolby Digital decoder.
- **STREAM/PCM**
  Select this when you connect the digital input connector of an amplifier with a built-in DTS, Dolby Digital, or MPEG multichannel decoder.

NOTE

- When DBS is selected as the source, PCM signal is output from DIGITAL OUT.

■ D. RANGE COMPRESSION

(Dynamic range compression)
You can enjoy low level recorded sound clearly at night even at a low volume when listening to the sound with Dolby Digital.

- **AUTO**
  Select this when you want to enjoy surround sound with its full dynamic range (no effect applied).
- **ON**
  Select this when you want to fully apply the compression effect (useful at midnight).

NOTE

- When you play a multichannel Dolby Digital source with the surround mode is off, the setting of D. RANGE COMPRESSION is set to ON automatically.

: Speaker setting menu (SPK. SETTING)

■ Level menu (LEVEL)

CENTER SPEAKER/SURROUND RIGHT SPEAKER/ SURROUND LEFT SPEAKER/SUBWOOFER
While monitoring the test tone, adjust the center and surround speakers volume as much as that of the front speakers.

TEST TONE*
Outputs the test tone.

RETURN
Returns to the SPK. SETTING menu.

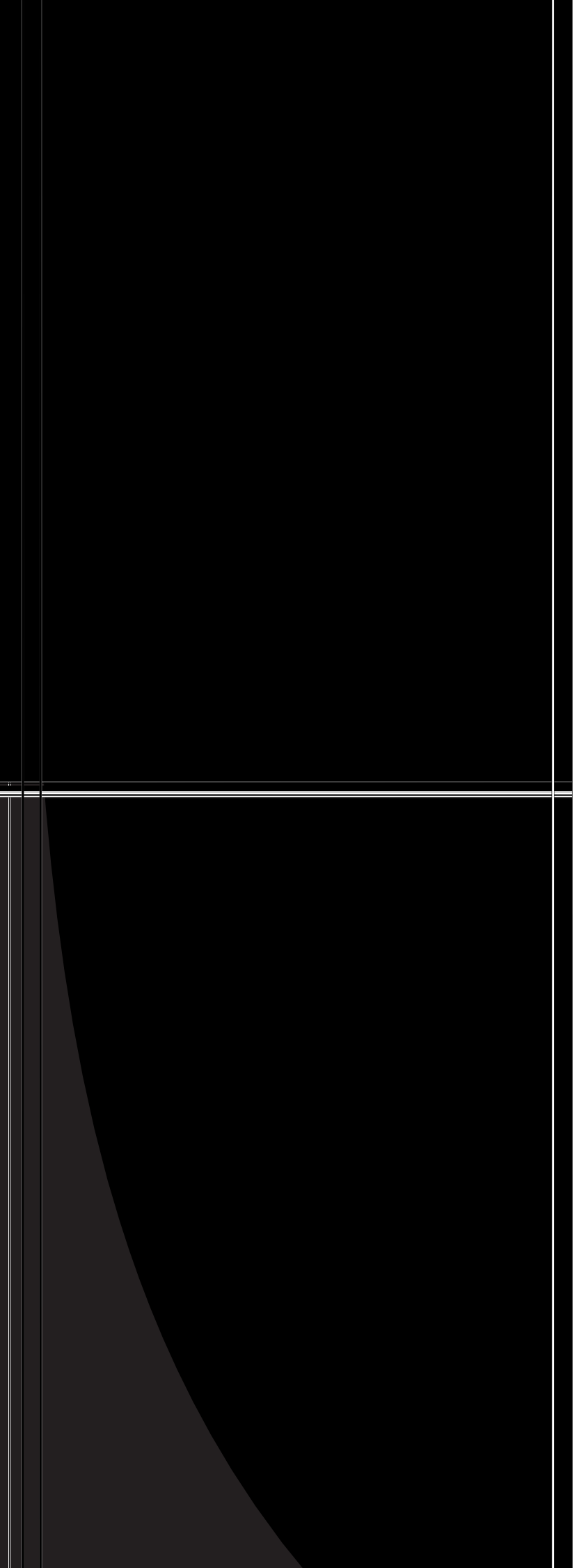
* The test tone comes out of all of the activated speakers in the following sequence:
  ⇨ Front left speaker ⇨ Center speaker ⇨ Front right speaker ⇨ Surround right speaker ⇨ Surround left speaker ⇨ (back to the beginning)

NOTE

- Before you turn on the test tone, be sure to select AUTO SURR as the surround mode. (☞ pg. 24)

Country/Area codes list for Parental Lock

AD	Andorra	ER	Eritrea	LA	Lao People's Democratic Republic	RW	Rwanda
AE	United Arab Emirates	ES	Spain			SA	Saudi Arabia
AF	Afghanistan	ET	Ethiopia	LB	Lebanon	SB	Solomon Islands
AG	Antigua and Barbuda	FI	Finland	LC	Saint Lucia	SC	Seychelles
AI	Anguilla	FJ	Fiji	LI	Liechtenstein	SD	Sudan
AL	Albania	FK	Falkland Islands (Malvinas)	LK	Sri Lanka	SE	Sweden
AM	Armenia	FM	Micronesia (Fedelated States of)	LR	Liberia	SG	Singapore
AN	Netherlands Antilles			LS	Lesotho	SH	Saint Helena
AO	Angola	FO	Faroe Islands	LT	Lithuania	SI	Slovenia
AQ	Antarctica	FR	France	LU	Luxembourg	SJ	Svalbard and Jan Mayen
AR	Argentina	FX	France, Metropolitan	LV	Latvia	SK	Slovakia
AS	American Samoa	GA	Gabon	LY	Libyan Arab Jamahiriya	SL	Sierra Leone
AT	Austria	GB	United Kingdom	MA	Morocco	SM	San Marino
AU	Australia	GD	Grenada	MC	Monaco	SN	Senegal
AW	Aruba	GE	Georgia	MD	Moldova, Republic of	SO	Somalia
AZ	Azerbaijan	GF	French Guiana	MG	Madagascar	SR	Suriname
BA	Bosnia and Herzegovina	GH	Ghana	MH	Marshall Islands	ST	Sao Tome and Principe
BB	Barbados	GI	Gibraltar	ML	Mali	SV	El Salvador
BD	Bangladesh	GL	Greenland	MM	Myanmar	SY	Syrian Arab Republic
BE	Belgium	GM	Gambia	MN	Mongolia	SZ	Swaziland
BF	Burkina Faso	GN	Guinea	MO	Macau	TC	Turks and Caicos Islands
BG	Bulgaria	GP	Guadeloupe	MP	Northern Mariana Islands	TD	Chad
BH	Bahrain	GQ	Equatorial Guinea	MQ	Martinique	TF	French Southern Territories
BI	Burundi	GR	Greece	MR	Mauritania	TG	Togo
BJ	Benin	GS	South Georgia and the South Sandwich Islands	MS	Montserrat	TH	Thailand Code Language
BM	Bermuda			MT	Malta	TJ	Tajikistan
BN	Brunei Darussalam	GT	Guatemala	MU	Mauritius	TK	Tokelau
BO	Bolivia	GU	Guam	MV	Maldives	TM	Turkmenistan
BR	Brazil	GW	Guinea-Bissau	MW	Malawi	TN	Tunisia
BS	Bahamas	GY	Guyana	MX	Mexico	TO	Tonga
BT	Bhutan	HK	Hong Kong	MY	Malaysia	TP	East Timor
BV	Bouvet Island	HM	Heard Island and McDonald Islands	MZ	Mozambique	TR	Turkey
BW	Botswana			NA	Namibia	TT	Trinidad and Tobago
BY	Belarus	HN	Honduras	NC	New Caledonia	TV	Tuvalu
BZ	Belize	HR	Croatia	NE	Niger	TW	Taiwan
CA	Canada	HT	Haiti	NF	Norfolk Island	TZ	Tanzania, United Republic of
CC	Cocos (Keeling) Islands	HU	Hungary	NG	Nigeria	UA	Ukraine
CF	Central African Republic	ID	Indonesia	NI	Nicaragua	UG	Uganda
CG	Congo	IE	Ireland	NL	Netherlands	UM	United States Minor Outlying Islands
CH	Switzerland	IL	Israel	NO	Norway		
CI	Côte d'Ivoire	IN	India	NP	Nepal	US	United States
CK	Cook Islands	IO	British Indian Ocean Territory	NR	Nauru	UY	Uruguay
CL	Chile	IQ	Iraq	NU	Niue	UZ	Uzbekistan
CM	Cameroon	IR	Iran (Islamic Republic of)	NZ	New Zealand	VA	Vatican City State (Holy See)
CN	China	IS	Iceland	OM	Oman	VC	Saint Vincent and the Grenadines
CO	Colombia	IT	Italy	PA	Panama		
CR	Costa Rica	JM	Jamaica	PE	Peru	VE	Venezuela
CU	Cuba	JO	Jordan	PF	French Polynesia	VG	Virgin Islands (British)
CV	Cape Verde	JP	Japan	PG	Papua New Guinea	VI	Virgin Islands (U.S.)
CX	Christmas Island	KE	Kenya	PH	Philippines	VN	Vietnam
CY	Cyprus	KG	Kyrgyzstan	PK	Pakistan	VU	Vanuatu
CZ	Czech Republic	KH	Cambodia	PL	Poland	WF	Wallis and Futuna Islands
DE	Germany	KI	Kiribati	PM	Saint Pierre and Miquelon	WS	Samoa
DJ	Djibouti	KM	Comoros	PN	Pitcairn	YE	Yemen
DK	Denmark	KN	Saint Kitts and Nevis	PR	Puerto Rico	YT	Mayotte
DM	Dominica	KP	Korea, Democratic People's Republic of	PT	Portugal	YU	Yugoslavia
DO	Dominican Republic			PW	Palau	ZA	South Africa
DZ	Algeria	KR	Korea, Republic of	PY	Paraguay	ZM	Zambia
EC	Ecuador	KW	Kuwait	QA	Qatar	ZR	Zaire
EE	Estonia	KY	Cayman Islands	RE	Réunion	ZW	Zimbabwe
EG	Egypt	KZ	Kazakhstan	RO	Romania		
EH	Western Sahara			RU	Russian Federation		



See page 40 for button locations.

Preset tuning

Once a station is assigned to a channel number, the station can be quickly tuned in. You can preset 30 FM and 15 AM stations.

■ To preset the stations

1 Tune in the station you want to preset.

- If you want to store the FM reception mode for an FM station, select the reception mode you want. See "Selecting the FM reception mode" below.

Example:

When the system is tuned in to 103.50 MHz.

2 Press MEMORY.

While "CH" and "– –" are flashing:

3 Press number button(s) (1-10, +10) to select a preset number you want.

- For details on using the number buttons, see "How to use the number buttons" (A pg. 23).

Example:

When the preset channel 1 is selected.

If the setting is cancelled before you finish, start from step 2 again.

While the selected number is flashing:

4 Press MEMORY.

The selected number stops flashing.
The station is assigned to the selected preset number.
If the setting is cancelled before you finish, start from step 2 again.

5 Repeat steps 1 to 4.

- Storing a new station to a used number erases the previously stored one.

■ To tune in to a preset station

1 Press FM/AM repeatedly to select FM or AM.

2 Press number button(s) (1-10, +10) to select a preset number.

- For details on using the number buttons, see "How to use the number buttons" (A pg. 23).

Selecting the FM reception mode

When the stereo FM program currently tuned in is noisy, you can change the FM reception mode to improve the reception.

■ While listening to an FM station

Press FM MODE.

The FM reception mode appears on the display window.
Each time you press the button, the FM reception mode changes.

- **AUTO MUTING:**
  When a program is broadcast in stereo, you will hear stereo sound. (The ST indicator lights on the display window.) When in monaural, you will hear monaural sound. This mode is also useful to suppress static noise between stations. The AUTO MUTING indicator lights on the display window.
- **MONO:**
  Reception will be improved although you will lose the stereo effect. (The ST indicator goes off.) In this mode, you will hear noise until you are tuned in to a station. (The AUTO MUTING indicator also goes off.)

Reducing the noise of AM broadcast

When listening to an AM broadcast with a lot of noise interference, you can change the Beat Cut mode to reduce the noise.

■ While listening to an AM station

Press FM MODE.

The current Beat Cut mode appears on the display window.
Each time you press the button, the Beat Cut mode changes.

- Choose "BEAT CUT 1" or "BEAT CUT 2" according to which gives clearer sound.

AV COMPU LINK remote control system

The AV COMPU LINK remote control system allows you to operate JVC TVs and VCRs through the center unit. This system is equipped with the AV COMPU LINK-III, which adds a function to operate JVC's video components via the video components terminals. To use this remote control system, you need to connect the video components you want to operate as follows.

- Refer also to the manuals supplied with your TV and video components.

Connecting a TV and VCR

CAUTION

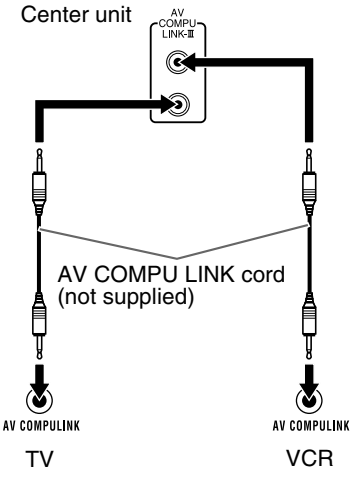
Before connecting;

- If you have already plugged your VCR, TV and the center unit into the AC outlets, unplug their AC power cords first.

1 Connect the center unit to a TV and VCR.

- For details, see page 11 and 12.

2 Connect the center unit to a TV and VCR using the optional AV COMPU LINK cords.



3 Plug the AC power cords of the VCR, TV and the center unit into the AC outlets.

4 Turn on the connected components first, then turn on the center unit.

- When turning on the TV for the first time after the AV COMPU LINK connection, turn the TV volume to minimum using the TV volume control on the TV.
- When turning on the VCR, use the remote control supplied with this system. (Press ⏻/I VCR/DBS.)

NOTE

- To correctly use the automatic selection of TV input mode, select the correct "M. OUT" setting. (A pg. 35)

Available functions

The AV COMPU LINK remote control system allows you to use the functions listed following.

One-touch video play

Simply by inserting a video cassette without its safety tab into the VCR, you can enjoy video playback without manually setting other switches. This system automatically turns on and changes the source to VCR.
The TV automatically turns on and changes the input mode to the appropriate position so that you can view the playback picture.
When you insert a video cassette with its safety tab in place, press the play (►) button on the VCR or on the remote control to get the same result.

One-touch DVD play

Simply by starting playback on the built-in DVD player, you can enjoy playback without manually setting other switches. The TV automatically turns on and changes the input mode to the appropriate position so that you can view the playback picture.

Automatic selection of TV input mode

When you select DVD or VCR as the source to play on the system, the TV automatically changes the input mode to the appropriate position so that you can view the playback picture.

Automatic Power On/Off

The TV and VCR turn on and off along with the system.
When you turn on the system;

- If the previously selected source is "DVD", only the TV will turn on automatically.
- If the previously selected source is "VCR", the TV and VCR will turn on automatically.

When you turn off the system, the TV and VCR will turn off.

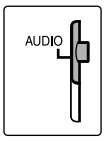
NOTE

- If you turn off the system while recording on the VCR, the VCR will not turn off and will continue recording.

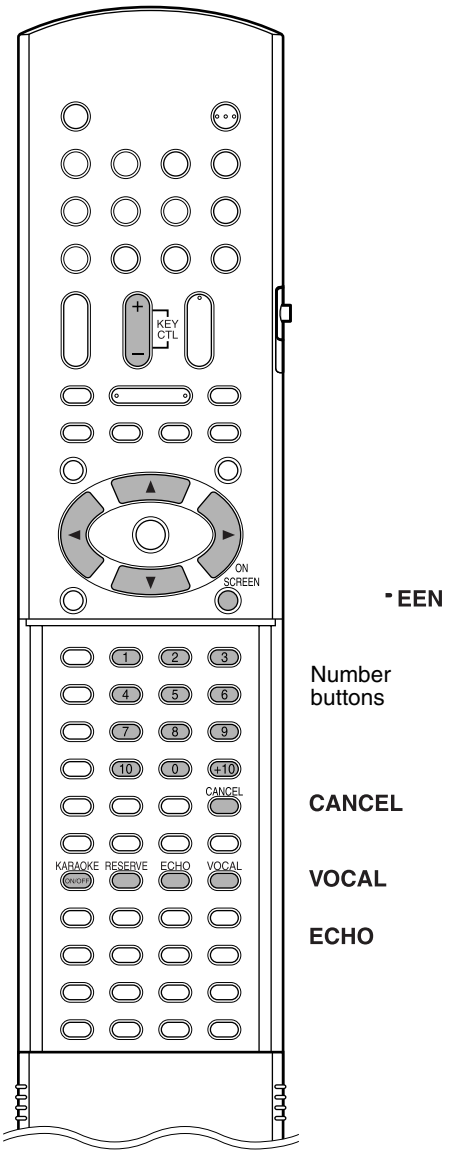
- The icon such as DVD VIDEO shows the types of discs the operation is available for.

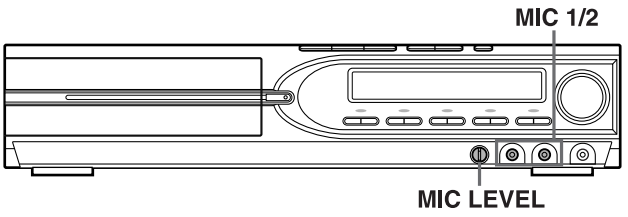
IMPORTANT

Before using the remote control for the following operation;
- Set the remote control mode selector to AUDIO.



The buttons described below are used on pages 43 to 45.





Basic KARAOKE operation

1 Connect a microphone to MIC 1 or MIC 2 on the center unit.

DVD VIDEO | VCD | SVCD | CD | MP3 WMA

2 Press the KARAOKE button so that appears on the display window.

3 Start playback.

See "Basic playback" (☞ pg. 20).

4 Turn MIC LEVEL to adjust the microphone's volume.

- This control adjust the output volume of both MIC 1 and MIC 2 together.

5 Sing along with the playback of the song.

To turn off KARAOKE function

Press KARAOKE so that disappears from the display window.

To repeat a disc/chapter/title/ track during KARAOKE mode

Set the Repeat mode. (☞ pg. 33)

To enjoy Karaoke using a menu screen

See "Playing from a specified position on a disc" (☞ pg. 27).

NOTE

- While playback is paused, no sound (voice) via the microphone is heard from the speakers.
- You cannot turn on KARAOKE function while playing back an MPEG4/DVD AUDIO disc.
- KARAOKE function will be canceled when you change the source by pressing a source selecting button or when an MPEG4/DVD AUDIO disc playback automatically starts.
- When KARAOKE function is on:
  - The volume indication on the display window automatically turns up by a few levels but the change of the indication does not affect on the hearing.
  - The output level of the DIGITAL OUT jack is lowered.
  - The surround mode (☞ pg. 24) is canceled.

See page 43 for button locations.

Reserving songs

You can reserve your desired songs (tracks/chapters) to play in the order of your choice.
Up to 12 songs can be reserved with this function.

DVD VIDEO | VCD | SVCD | CD | MP3 WMA

■ While stopped with KARAOKE function turned on

1 Press RESERVE.

The reservation list appears on the TV screen.

2 Press number buttons (1-10, +10) to select your desired song to reserve by specifying the disc, group/title, and track/chapter numbers.

Example:
To specify "track/chapter 2" of "disc 1": Press 1 ⇨ 1 ⇨ 2
To specify "track/chapter 14" of "disc 3": Press 3 ⇨ 1 ⇨ +10 ⇨ 4
To specify "track/chapter 20" of "disc 3": Press 3 ⇨ 1 ⇨ +10 ⇨ 10

No	Disc	Gr/Tt	Tr/Chap
1	1	1	2
2	3	1	14
3	3	1	20
4			
5			

To erase a reserved song

Press Cursor ▼/▲ to select the desired song (disc, group/title, and title/track numbers), then press CANCEL.

To add a song to the reservation list

Press Cursor ▼/▲ to select the desired song (disc, group/title, and title/track numbers), then specify a new disc, group/title, and title/track numbers. The new song is inserted before the selected song.

3 Repeat step 2 to reserve the rest of your selection.

4 Press ► (play button) to start playback of the reserved songs.

To hide or show the reservation list

Press RESERVE. Each time you press RESERVE, the reservation list disappears/appears from/on the TV screen.

NOTE

- When "⃠" appears in step 2, 12 songs have already been reserved and you cannot make more reservations.
- While the reservation list is not displayed on the TV screen, you cannot start playback of the reserved songs by pressing ► (play button). Be sure to press RESERVE to display the reservation list before you start playback.
- You can additionally reserve a song next to the current playing song even during playback. In such a case, perform the procedure above from step 1 through 3.

Selecting audio

Most Karaoke discs have the capability of adding "Guide vocal" or "Guide melody" to the Karaoke accompaniment.

Selecting audio channel(s) [AUDIO]

With most DVD Karaoke discs, you can select audio channel(s) among some options called "with guide vocal", "with guide melody", and "accompaniment only", etc. to enjoy Karaoke to your preference.

DVD VIDEO | VCD | SVCD

■ During playback

1 Press ON SCREEN.

2 Press AUDIO repeatedly to select the desired audio channel.

Each time you press AUDIO, audio channel changes as follows;

Example for a video CD, super VCD:
ST ⇨ L ⇨ R ⇨ (back to the beginning)

- ST: To listen to L (left) and R (right) audio channel.
- L: To listen to L (left) audio channel.
- R: To listen to R (right) audio channel.

NOTE

- When "⃠" appears on the TV screen, the disc does not contain multi audio channels or this operation is prohibited.

Masking the vocal recorded on a normal disc [VOCAL MASK]

You can enjoy Karaoke with a normal disc (containing no multiplex audio or multi-sound Karaoke audio, etc.) by attenuating the frequencies around a human voice with this function. Note that this setting is applied only to the current disc.

DVD VIDEO | VCD | SVCD | CD | MP3 WMA

■ During playback with KARAOKE function turned on

1 Press VOCAL.

Each time you press VOCAL, vocal mask function turns on and off alternately.

NOTE

- The voice may not be masked enough with some discs.

See page 43 for button locations.

Adding an echo effect to your voice

■ During playback with KARAOKE function turned on

DVD VIDEO | VCD | SVCD | CD | MP3 WMA

Press ECHO repeatedly to select the desired effect level.

Each time you press ECHO, vocal option changes as follows;

OFF ⇨ 1 ⇨ 2 ⇨ 3 ⇨ (back to the beginning)

As the number increases, the effect will be emphasized. (Normally set the level to "2".)

To cancel the sound effect

Select "OFF" in the procedure above.

Shifting the pitch of the playback sound

You can sharp/flat the pitch of a song recorded on a disc by a halftone interval to match your voice range. Note that this setting is applied only to the current title/track.

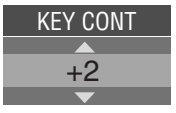
DVD VIDEO | VCD | SVCD | CD | MP3 WMA

■ During playback with KARAOKE function turned on

1 Press KEY CTL +/–.

The following indication appears on the TV screen.

For DVD VIDEO/VCD/SVCD/CD: (pop-up window)



- Be sure to go to the next step within five seconds while the pop-up window is displayed on the TV screen.

For MP3/WMA: (in the file control display)

2 Press KEY CTL +/– repeatedly to adjust the pitch (–6 to +6).

- Press KEY CTL + to sharp and KEY CTL – to flat the pitch.

To resume normal playback

Select "0" in the procedure above.

NOTE

- Depending on the type of the recorded source (such as a DTS Digital Surround software, etc.), you may not be able to shift the pitch.

Maintenance

■ Handling Discs

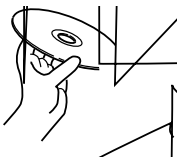
- Remove the disc from its case by holding it at the edge while pressing the center hole lightly.
- Do not touch the shiny surface of the disc or bend the disc.
- Put the disc back in its case after use to prevent warping.

- Be careful not to scratch the surface of the disc when placing it back in its case.
- Avoid exposure to direct sunlight, temperature extremes and moisture.

To clean the disc

Wipe the disc with a soft cloth in a straight line from center to edge.

- **DO NOT use any solvent — such as conventional record cleaner, spray, thinner or benzine — to clean the disc.**



■ Cleaning the system

- Stains on the system should be wiped off with a soft cloth. If the system is heavily stained, wipe it with a cloth soaked in water-diluted neutral detergent and wrung well, then wipe clean with a dry cloth.
- Since the system may deteriorate in quality, become damaged or get its paint peeled off, be careful about the following.
  - DO NOT wipe it with a hard cloth.
  - DO NOT wipe it strong.
  - DO NOT wipe it with thinner or benzine.
  - DO NOT apply any volatile substance such as insecticides to it.
  - DO NOT allow any rubber or plastic to remain in contact with it for a long time.

Specifications

■ Center unit (XV-THM508/XV-THM303)

Audio section

Total Harmonic Distortion 0.02 %

NOTE: This value is measured at System cord CONNECTOR for reference.

Digital input*1:

DIGITAL IN (DBS):	–21 dBm to –15 dBm
(OPTICAL)	(660 nm ±30 nm)

*1 Corresponding to Linear PCM, Dolby Digital, and DTS Digital Surround (with sampling frequency — 32 kHz, 44.1 kHz, 48 kHz)

Video section

Video System:	NTSC/PAL selectable
Horizontal Resolution:	500 lines
Signal-to-Noise Ratio:	64 dB
Video output level	
Composite:	1.0 V(p-p)/75 Ω
S-video-Y:	1.0 V(p-p)/75 Ω
S-video-C:	0.286 V (0.3 V*2) (p-p)/75 Ω
Component-Y:	1.0 V(p-p)/75 Ω
Component-P_B/P_R:	0.7 V(p-p)/75 Ω
Video input sensitivity/Impedance (VCR IN)	
Composite:	1.0 V(p-p)/75 Ω
S-video-Y:	1.0 V(p-p)/75 Ω
S-video-C:	0.286 V (0.3 V*2) (p-p)/75 Ω

*2 For PAL system

Tuner section

Tuning Range

FM:	87.50 MHz to 108.00 MHz
AM:	531 kHz to 1 602 kHz (at 9 kHz intervals) 530 kHz to 1 600 kHz (at 10 kHz intervals)

General

Power Requirements:	AC 110 – 240 V ~, 50/60 Hz (except for Australia) AC 240 V ~, 50 Hz (for Australia only)
Power Consumption:	18 W (at operation) 2.0 W (in standby mode)
Dimensions (W × H × D):	400 mm × 85 mm × 380 mm
Mass:	4.3 kg

■ Subwoofer (SP-PWM508)

Amplifier section

Front/Center/Surround:	140 W per channel, RMS at 4 Ω (Center/Surround)/ 140 W per channel, RMS at 4 Ω (Front) at 1 kHz, with 10 % total harmonic distortion.
Subwoofer:	300 W, RMS at 4 Ω at 100 Hz, with 10 % total harmonic distortion.

Speaker section

Speaker unit:	25 cm Bass-reflex, Magnetically Shielded
Frequency Range:	20 Hz to 200 Hz

General

Power Requirements:	AC 110 V/127 V/220 – 240 V ~ selectable with the voltage selector, 50 Hz/60 Hz
Power Consumption:	170 W (at operation) 0 W (in standby mode)
Dimensions (W × H × D):	256 mm × 482 mm × 460 mm
Mass:	18.5 kg

■ Subwoofer (SP-PWM303)

Amplifier section

Front/Center/Surround:	80 W per channel, RMS at 6 Ω (Center/Surround)/ 120 W per channel, RMS at 4 Ω (Front) at 1 kHz, with 10 % total harmonic distortion.
Subwoofer:	120 W, RMS at 4 Ω at 100 Hz, with 10 % total harmonic distortion.

Speaker section

Speaker unit:	16 cm Bass-reflex, Magnetically Shielded
Frequency Range:	30 Hz to 200 Hz

General

Power Requirements:	AC 110 V/127 V/220 – 240 V ~ selectable with the voltage selector, 50 Hz/60 Hz (except for Australia) AC 240 V ~, 50 Hz (for Australia only)
Power Consumption:	110 W (at operation) 0 W (in standby mode)
Dimensions (W × H × D):	168.5 mm × 412 mm × 444 mm
Mass:	12.0 kg

■ Satellite Speakers

Front speakers (SP-THM508F)

Speakers:
- Woofer: 10.0 cm × 2
- Tweeter: 4.0 cm

Bass-reflex, Magnetically Shielded
Power Handling Capacity: 140 W
Impedance: 4 Ω
Frequency Range: 60 Hz to 20 kHz
Dimensions (W × H × D):
250 mm × 1065.5 mm × 310 mm
Mass: 7.2 kg

Surround speakers (SP-THM505S)

Speakers: 8.0 cm
Bass-reflex, Magnetically Shielded
Power Handling Capacity: 140 W
Impedance: 4 Ω
Frequency Range: 80 Hz to 20 kHz
Dimensions (W × H × D):
111.5 mm × 139 mm × 106.5 mm
Mass: 0.52 kg

Center speaker (SP-THM508C)

Speakers:
- Woofer: 8.0 cm × 2
- Tweeter: 4.0 cm

Bass-reflex, Magnetically Shielded
Power Handling Capacity: 140 W
Impedance: 4 Ω
Frequency Range: 65 Hz to 20 kHz
Dimensions (W × H × D):
326 mm × 119 mm × 170 mm
Mass: 2.5 kg

■ Satellite Speakers

Front speakers (SP-THM303F)

Speakers: 8.0 cm
Bass-reflex, Magnetically Shielded
Power Handling Capacity: 140 W
Impedance: 4 Ω
Frequency Range: 90 Hz to 20 kHz
Dimensions (W × H × D):
106 mm × 119.5 mm × 102 mm
Mass: 0.69 kg

Surround speakers (SP-THM303S)

Speakers: 8.0 cm
Bass-reflex, Magnetically Shielded
Power Handling Capacity: 140 W
Impedance: 4 Ω
Frequency Range: 80 Hz to 20 kHz
Dimensions (W × H × D):
111.5 mm × 139 mm × 106.5 mm
Mass: 0.63 kg

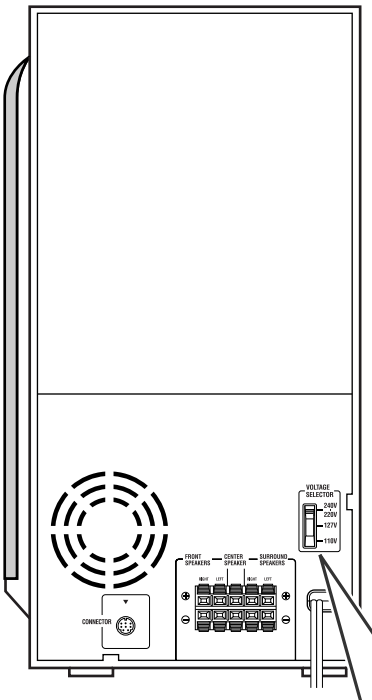
Center speaker (SP-THM303C)

Speakers: 8.0 cm
Bass-reflex, Magnetically Shielded
Power Handling Capacity: 140 W
Impedance: 4 Ω
Frequency Range: 90 Hz to 20 kHz
Dimensions (W × H × D):
106 mm × 119.5 mm × 102 mm
Mass: 0.69 kg

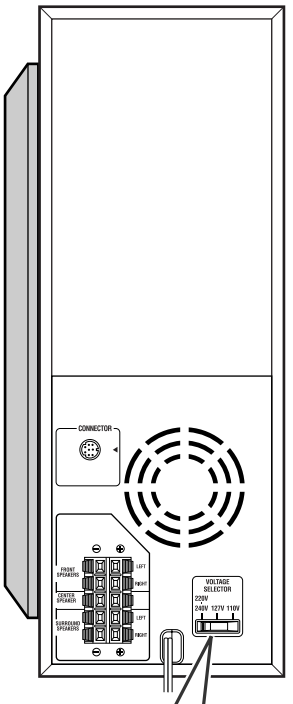
Designs & specifications are subject to change without notice.

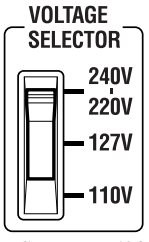
Mains (AC) Line Instruction (not applicable for SP-PWM303 for Australia)

SP-PWM508



SP-PWM303

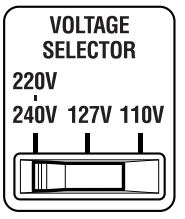




For SP-PWM508

CAUTION for mains (AC) line

BEFORE PLUGGING IN, do check that your mains (AC) line voltage corresponds with the position of the voltage selector switch provided on the outside of this equipment and, if different, reset the voltage selector switch, to prevent from a damage or risk of fire/electric shock.



For SP-PWM303

JVC

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